



AUGUST
2023

BASIC GEOTECHNICAL ASSESSMENT REPORT

For the site at:

Land South of West Street and West of
Loose Lane, Sompting, West Sussex,
BN15 0DQ

On behalf of:

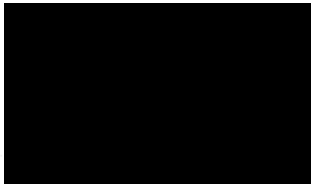
Persimmon Homes Thames
Valley

Job Reference:

ICE0175-BGA-AUG23

IBEX Consulting Engineers Limited

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Report:	BASIC GEOTECHNICAL ASSESSMENT REPORT
Site:	PHASE 2, LAND SOUTH OF WEST STREET AND WEST OF LOOSE LANE, SOMPTING, WEST SUSSEX, BN15 0DQ
Client:	PERSIMMON HOMES THAMES VALLEY
Date:	30/08/2023
Reference:	ICE0175-BGA-AUG23
Version:	1.0
Prepared by:	
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AMENDMENT RECORD

Revision ref.	Date	Reasons for amendment	Author
1.0	30/08/2023	First issue	LD

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1. INTRODUCTION

1.1 General

IBEX Consulting Engineers Limited ('IBEX') was instructed by Persimmon Homes Thames Valley ('the Client') to undertake a supplementary ground investigation of the geotechnical factors at Land South of West Street and West of Loose Lane, Sompting, West Sussex, BN15 0DQ. The site's location is presented in Figure 1.

1.2 Form of Development

It is understood that the site is proposed to be developed with a new residential development with private gardens, a communal open space, services access roads and associated development infrastructure.

1.3 Objectives

The investigation was to comprise geotechnical factors pertaining to the site, including a review of available reports and an examination of other sources of geotechnical information. Subject to the findings of the available documents and reports, an intrusive investigation was to be undertaken into the geotechnical conditions pertaining to the site.

The data from the geotechnical investigation was to form the basis of a preliminary interpretation with respect to foundations, buried concrete and excavation stability.

1.4 Standards

Where practicable, the ground investigation and subsequent geotechnical assessments were undertaken in accordance with the following documents and guidance:

- British Standards Institute - Code of Practice for Earth Retaining Structures (BS8002:2015).
- British Standards Institute - Code of Practice for Site Investigations (BS5930:2015).
- British Standards Institute - Eurocode 7 - Geotechnical Design - Parts 1 & 2 (BS EN1997-1:2004 & BS EN1997-2:2007).
- British Standards Institute - Investigation of Potentially Contaminated Sites - Code of Practice (BS10175:2011).
- British Standards Institute - Soils for Civil Engineering Purposes (BS1377:1990).

1.5 Conditions

The data collected from the investigations have been used to provide an interpretation of the geotechnical conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. IBEX takes no responsibility for conditions that either have not been revealed in the available records, or that occurs between or under points of physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

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2. SITE INFORMATION

The purpose of this section is to summarise the available information relevant to the geotechnical elements of the proposed scheme. Where appropriate, this information will be used in the later sections of this report as supplementary information to assist in the evaluation of the ground conditions and aid the identification of geotechnical constraints and hazards that could impact on the scheme.

2.1 Site Information

The site location plan is presented in Figure 1.

Name of Site	Land South of West Street and West of Loose Lane	
Address of Site	Land South of West Street and West of Loose Lane Sompting West Sussex BN15 0DQ	
National Grid Reference	516712, 105505	
Site Area (Approx.)	44.61Ha	
Current Site Use	Agricultural farmlands	
Local Authority	Adur District Council	
Surfaces	Soft landscaping	
Vegetation	Mature and semi-mature trees, shrubs and hedgerows were noted along the site boundaries.	
Topography/Slope Stability	Flat and level	
Drainage	Unknown	
Services	Unknown	
Controlled waters	With the exception of a pond in the eastern portion of the site (land south of Test Road), no other surface waters were noted on site itself.	
Surrounding Land Uses	North	Residential properties and undeveloped farmlands
	East	Residential properties and arable fields
	South	Arable fields
	West	Arable fields

2.2 Geology

With reference to British Geological Survey (BGS) mapping and several intrusive investigations were undertaken on site, the geology of the ground conditions was anticipated to comprise Topsoil overlying the Head Deposits over the Tarrant Chalk Member. Given that the surrounding areas and boundaries of the site had been developed previously, there is the potential for a thickness of Made Ground to be present over the natural deposits.

BS5930:2015 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material.

Head Deposits are drifts produced by solifluxion, the downslope movement of debris outwash during the periglacial period and characteristically comprise poorly sorted sands gravels and chalk of local derivation.

2.3 Previous Ground Investigation

This report has been prepared by IBEX, as the Client's Geotechnical Engineer for the proposed residential development. The site and adjacent wider site have been the subject of several phases of intrusive investigations. The pertinent report(s), of which IBEX is aware, which relate to the proposed scheme or have been used to inform its design are:

- REC Phase I Geo-Environmental Site Assessment Report for West Street, Sompting West Sussex, BN15 0DF, Reference No: 1CO104163(20612)P1R2, dated February 2019;
- REC Geo-Environmental Site Investigation Report for Sompting, West Sussex, Reference No: 20612P2R4, dated February 2019;
- LEAP Environmental Infiltration Testing Letter Report for Land West of Loose Lane, Sompting, West Sussex, referenced KT/20/LP002150, dated February 2020;
- LEAP Environmental Groundwater Monitoring Letter Report for Land West of Loose Lane, Sompting, West Sussex, referenced MW/20/LP002150, dated March 2020; and
- IBEX Consulting Engineers Limited BRE365 Soakage Testing Letter Report for Land South of West Street and West of Loose Lane, Sompting, West Sussex, BN15 0DQ, referenced ICE0007/LD02/211022, dated October 2021.
- IBEX Consulting Engineers Limited Ground Appraisal Report for Land South of Test Road, Sompting, West Sussex, BN15 0EP, referenced ICE0007-GAR-MAR22, dated March 2022.

Reference should be made to the original reports and documents for further details. The ground conditions encountered at the site are summarised below.

REC, February 2019 Geo-Environmental Site Investigation Report:

The first Ground Investigation (GI) report was produced in February 2019 (final version dated February 2020). The GI was reported to comprise sixty exploratory holes to a maximum depth of 19.5m below ground level (bgl) within the boundaries of the subject site and adjacent wider site. The investigation indicated that Made Ground was encountered to a depth of 0.70m bgl and was described as dark slightly clayey sandy gravel. Light brown slightly sandy clayey gravel and soft to firm clay/silt with variable quantities of sand and gravel (Head Deposits) was encountered thereafter overlying the Chalk to a depth of 19.50m bgl.

LEAP Environmental, February 2020 Environmental Infiltration Testing Letter Report:

The second GI was undertaken by LEAP Environmental on behalf of Persimmon Homes Thames Valley, referenced KT/20/LP002150, dated 6th February 2020. The GI comprised eleven exploratory holes to a maximum depth of 5.0m bgl. The GI encountered Topsoil and Made Ground overlying the Head Deposits and Chalk.

IBEX, October 2021 BRE365 Soakage Testing Letter Report

The third GI was undertaken by IBEX on behalf of Persimmon Homes Thames Valley, referenced ICE0007/LD02/211022, dated October 2021. The GI comprised twenty-eight exploratory holes to a maximum depth of 5.0m bgl and investigation encountered a thickness of Topsoil overlying the Head Deposits over the Chalk.

IBEX, March 2022 Ground Appraisal Report

The fourth GI was undertaken by IBEX on behalf of Persimmon Homes Thames Valley, referenced ICE0007-GAR-MAR22, dated March 2022. The investigation comprised ten trial pits to a maximum depth of 1.6m bgl. The investigation encountered Topsoil (relict) and Made Ground overlying the Alluvium and Head Deposits.

2.4 Investigation Strategy

The investigation strategy comprised trial pits and boreholes to provide a general coverage of the site to assess ground and groundwater conditions and to support the geotechnical assessment. The investigation included:

- Provision of a RAMS pack presenting a risk assessment and method statement(s) specific to the proposed monitoring works.
- Survey of exploratory hole locations for detectable buried services and to obtain coordinates.
- Attendance of an Engineer to set out and supervise the intrusive investigation and logging of recovered soils from exploratory holes.
- Attendance of a mini digger or similar to excavate 16No. trial pits.
- Construction of up to 10No. window sampler boreholes to depths of up to 5.00m bgl, or maximum achievable depth depending on drilling conditions.
- Geotechnical Laboratory Testing to be carried out by a UKAS Accredited Laboratory in accordance with BS1377.
- Provision of a Basic Geotechnical Assessment Report detailing the findings of the ground and groundwater conditions encountered; the results of in-situ testing and laboratory testing; a geotechnical assessment for foundations and recommendations for further action (if required).

Soil samples were collected and placed into amber jars and cool boxes on site for transit to the office, where they were stored under chilled conditions (<4oC) prior to final transportation in cool boxes to the laboratory by their in-house courier. Both the geotechnical and contamination testing were undertaken by UKAS accredited laboratories. Contamination testing of soil samples was also undertaken in accordance with accredited MCERTs protocols. Samples were stored in temperature controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with laboratory's protocols.

3. ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the physical investigation of the site is presented in the following section.

For further details of the encountered ground conditions, reference should be made to the exploratory hole logs presented in Appendix A and the geotechnical testing results in Appendix B.

The physical ground investigation works were undertaken between 17th and 20th July 2023.

Unless stated otherwise, all depths are reported as metres below ground level (m bgl).

3.1 Ground Conditions

With reference to British Geological Survey (BGS) mapping and several intrusive investigations were undertaken on site, the geology of the ground conditions was anticipated to comprise Topsoil and Made Ground overlying the Head Deposits over the Tarrant Chalk Member.

The ground conditions encountered within the exploratory holes were broadly consistent with those anticipated, i.e. a thickness of Topsoil and Made Ground overlying cohesive and granular soils of the Head Deposits overlying the Tarrant Chalk Member. A summary of the encountered soil conditions is presented in Table 3.1.

Top (m bgl)	Base (m bgl)	Geology
0.00	0.19-0.27	Topsoil: Grass over light brown sandy gravelly clay.
0.00	0.19	Made Ground: Grass over greyish brown slightly gravelly sandy silty clay with brick fragments.
0.19-2.30	0.72-3.00	Cohesive Head Deposits: Varied from brown and light brown slightly sandy gravelly silty CLAY with rare roots to stiff yellowish brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse and angular to sub-angular.
0.27-1.50	1.15-4.00	Granular Head Deposits: Varied from brown and light brown sandy silty clayey GRAVEL to dense light grey clayey silty very sandy GRAVEL. Gravel is fine to coarse and sub-angular to angular.
0.72-3.50	1.10-5.00	Tarrant Chalk Member: Varied from light brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments are rare roots to stiff to very stiff light brown slightly sandy gravelly calcareous silty CLAY with occasional fine to medium chalk fragments. Gravel is fine to coarse and sub-angular.

Table 3.1 Summary of Ground Conditions

For more detailed descriptions of the ground conditions at specific locations, reference should be made to the exploratory hole logs presented in Appendix A.

3.2 Groundwater

Groundwater was not encountered during the investigation.

However, it should also be noted that changes in groundwater levels do occur for a number of reasons including seasonal effects and variations in drainage. Such fluctuations may only be recorded by the measurement of the groundwater level within a series of standpipes or piezometers installed within appropriate response zones.

3.3 Obstructions

During the intrusive ground investigation, impenetrable obstructions (e.g. dense gravel or dense sand) were encountered within WS207 and WS209 at a depth of 3.00m bgl during the investigation. As such, the presence of natural and/or manmade obstructions elsewhere on site cannot be discounted.

3.4 Geotechnical Testing Results

The results of geotechnical laboratory testing undertaken from the recovered samples (excluding Topsoil and Made Ground) are summarised in Table 3.2.

Parameter		Granular Head Deposits	Cohesive Head Deposits	Structureless Chalk CIRIA Grade Dc
Moisture Content (%)		-	4 – 21	10
Liquid Limit (%)		-	29 – 49	-
Plastic Limit (%)		-	16 – 19	-
Plasticity Index (%)		-	12 – 30	-
Modified Plasticity Index (%)		-	7 – 21	-
Volume Change Potential [NHBC and BRE]		Non-shrinkable	Low to Medium	Non-shrinkable
Particle Size Distribution	Gravel (%)	47.29 – 70.02	14.85 – 54.66	9.28 – 45.42
	Sand (%)	10.39 – 21.90	3.58 – 30.96	10.56 – 30.96
	Clay/Silt (%)	19.59 – 30.80	38.01 – 72.50	35.79 – 77.43
pH		-	7.3 – 8.2	8.0 – 8.4
Water soluble sulphate (mg/l)		-	4.5 – 170	4.9 – 6.2
Acid soluble sulphate (%)		-	0.024 – 0.065	0.030 – 0.047
Total Sulphur (%)		-	0.014 – 0.019	0.013 – 0.019
SPT 'N' Values		13 – >+50	9 – 27	19 – >+50

Table 3.2 Summary of Geotechnical Testing Results

4. ENGINEERING ASSESSMENT

Subsequent to intrusive investigation of the site and receipt of the laboratory test results, the following geotechnical assessments have been made.

4.1 Foundations

Phase II Southern and Centre Portions (based on WS203 to WS208)

Based on the findings of the latest intrusive investigation as well as former intrusive investigations were undertaken in the middle centre and northern portions of Phase I, the geology of the upper layers of the Head Deposits have been indicated to comprise more granular soils than the remaining portions of Phase II. Due to coarse nature of these deposits, higher bearing capacities are very likely to be achieved at variable depths in the centre and southern portions of Phase II. For the purposes of this assessment, the underlying more chalky deposits or the underlying Tarrant Chalk Member have also been assumed to have a similar influence as granular Head Deposits. Therefore, an allowable bearing capacity of 150kPa is recommended for the granular Head Deposits and/or Tarrant Chalk Member. Under this loading, total settlements should remain within tolerable limits, i.e. <25mm.

Based on the ground and groundwater conditions encountered, conventional shallow foundations could be suitable for the proposed residential development in the centre and southern portions of Phase II, albeit taken through any topsoil, soft clay, root or desiccated zones, or disturbed ground and bear wholly into, or onto the high strength cohesive elements or the granular Head Deposits, or underlying Tarrant Chalk Member.

Phase II Centre Portion of Western Site Boundary (based on WS109, TP214 and TP215)

Based on the findings of the several intrusive investigations were undertaken in the centre portion of the western site boundary of Phase II, the geology of the upper layers of the Head Deposits have been indicated to comprise more clayey soils than the southern portions of Phase II. Therefore, a reduced allowable bearing capacity of 100kPa is recommended for the cohesive Head Deposits in this area. Under this loading, total settlements should remain within tolerable limits, i.e. <25mm. Where any unexpected or soft ground conditions are encountered during the groundworks, works in that area should cease and the advice of a suitably qualified geotechnical engineer sought.

Phase II Northern and Northwest Portions (based on WS201, WS202 and WS210)

Based on the findings of the several intrusive investigations were undertaken in the northern and northwest portions of Phase II, the geology of the upper layers of the Head Deposits have been indicated to comprise more clayey soils than the remaining portions of Phase II. Therefore, a reduced allowable bearing capacity of 75kPa is recommended for the cohesive Head Deposits. Under this loading, total settlements should remain within tolerable limits, i.e. <25mm.

It must be noted that the upper layers of the cohesive Head Deposits can, in some circumstances, be prone to seasonal softening and thus the strength reported herein could be lower at other times and this might affect foundation options.

The results of the laboratory analysis indicated the cohesive elements of the Head Deposits to be low to medium volume change potential as defined by NHBC Standards, Chapter 4.2. Therefore, remote from trees, a minimum founding depth, within natural soils of suitable bearing capacity, would be 0.90m bgl. However, due to the presence of hedgerows and trees on the site boundaries, foundations within the zone of influence of trees and hedgerows (existing, removed and/or proposed) may need to be deepened in accordance with the NHBC Standards, Chapter 4.2.

Based on the ground and groundwater conditions encountered, conventional shallow foundations could be suitable for the proposed residential development in the northern and northwest portions of Phase II, albeit taken through any topsoil, soft

clay, root or desiccated zones, or disturbed ground and bear wholly into, or onto the medium strength cohesive elements of the Head Deposits.

Foundations greater than 2.50m deep would require structure-specific design by a structural engineer.

Where foundations span from granular/cohesive soils to chalk they should be reinforced, alternatively trench fill foundations should be adopted.

Where any unexpected or soft ground conditions are encountered during the groundworks, works in that area should cease and the advice of a suitably qualified geotechnical engineer sought.

The foundation zones derived based on the above assessment and are presented in ICE0175-FZM-02-Rev A.

4.2 Excavations

Both shallow and deeper excavations above the groundwater level within the cohesive soils are likely to remain relatively stable in the short to medium term though some spalling may be anticipated.

However, shallow excavations within the granular soils are unlikely to remain stable and some form of temporary support or battering back to a safe angle and dewatering are likely to be required.

Ground works should always be designed in such a manner so as to avoid entry into excavations by construction or maintenance personnel. However, in the event that such works cannot be avoided or designed out, they should only be undertaken in accordance with a safe system of work, following an appropriate risk assessment and in accordance with any legislative requirements, e.g. Confined Spaces Regulations.

4.3 Floor Slabs

Given the presence of shrinkable soils, it is recommended that suspended floor slabs are used with an adequate void designed according to NHBC Standards. As a guide, initial modelling indicates a requirement for a sub-floor void of at least 200mm due to the presence of shrinkable soils of low volume change potential. This would increase to a 250mm void where medium volume change potential soils are present at shallow depth.

4.4 Sulphates

Sulphate attack on building foundations occurs where sulphate solutions react with the various products of hydration in Ordinary Portland Cement (OPC) or converted High-Alumina Cement (HAC). The reaction is expansive, and therefore disruptive, not only due to the formation of minute cracks, but also due to loss of cohesion in the matrix.

In accordance with BRE Special Digest 1, the characteristic values of sulphate used to determine the concrete classification are determined using the methodology summarised in the table below.

No Samples in the dataset	Method for determining the sulphate characteristic value
1 – 4	Highest Value
5 – 9	Mean of the top 2No highest results
10 or greater	Mean of the top 20% highest results

Table 4.1 Concrete in the Ground Characteristic Value Determination

Based on the guidance given in BRE Special Digest 1, Part 1 (2005), the results of the laboratory tests correspond to design class DS-1. The pH analysis indicates that the ACEC Class corresponds to AC-1s. It is recommended that the advice of this publication be taken for the design and specification of all sub-surface concrete.

pH (2.5:1 water/soil)	Water Soluble Sulphate (mg/l as SO ₄)	Acid Soluble Sulphate (% SO ₄)	Total Sulphur (% SO ₄)	Total Potential Sulphate (% SO ₄)	Water Soluble Sulphate (mg/l as SO ₄)	Oxidisable Sulphates (% SO ₄)	OS > 0.3 %	DS	ACEC - Static Groundwater	ACEC - Mobile Groundwater
7.6	52.0	0.024	0.017	0.051		0.027		DS-1	AC-1s	AC-1
7.6	170.0	0.025	0.014	0.042		0.017		DS-1	AC-1s	AC-1
7.4	14.0	0.029	0.020	0.06		0.031		DS-1	AC-1s	AC-1
8.2	6.2	0.044	0.019	0.057		0.013		DS-1	AC-1s	AC-1
8.1	8.3	0.037	0.018	0.054		0.017		DS-1	AC-1s	AC-1
8.0	4.9	0.047	0.019	0.057		0.01		DS-1	AC-1s	AC-1
7.5	8.1	0.016	0.019	0.057		0.041		DS-1	AC-1s	AC-1
7.9	4.7	0.030	0.013	0.039		0.009		DS-1	AC-1s	AC-1
7.3	9.7	0.034	0.017	0.051		0.017		DS-1	AC-1s	AC-1
8.2	4.5	0.065	0.018	0.054		-0.011		DS-1	AC-1s	AC-1
8.4	5.3	0.030	0.014	0.042		0.012		DS-1	AC-1s	AC-1

Chart 1: Summary of ACEC Classification



BASIC GEOTECHNICAL ASSESSMENT REPORT

For the site at:
Land South of West Street and West of
Loose Lane, Sompting, West Sussex
BN15 0DQ

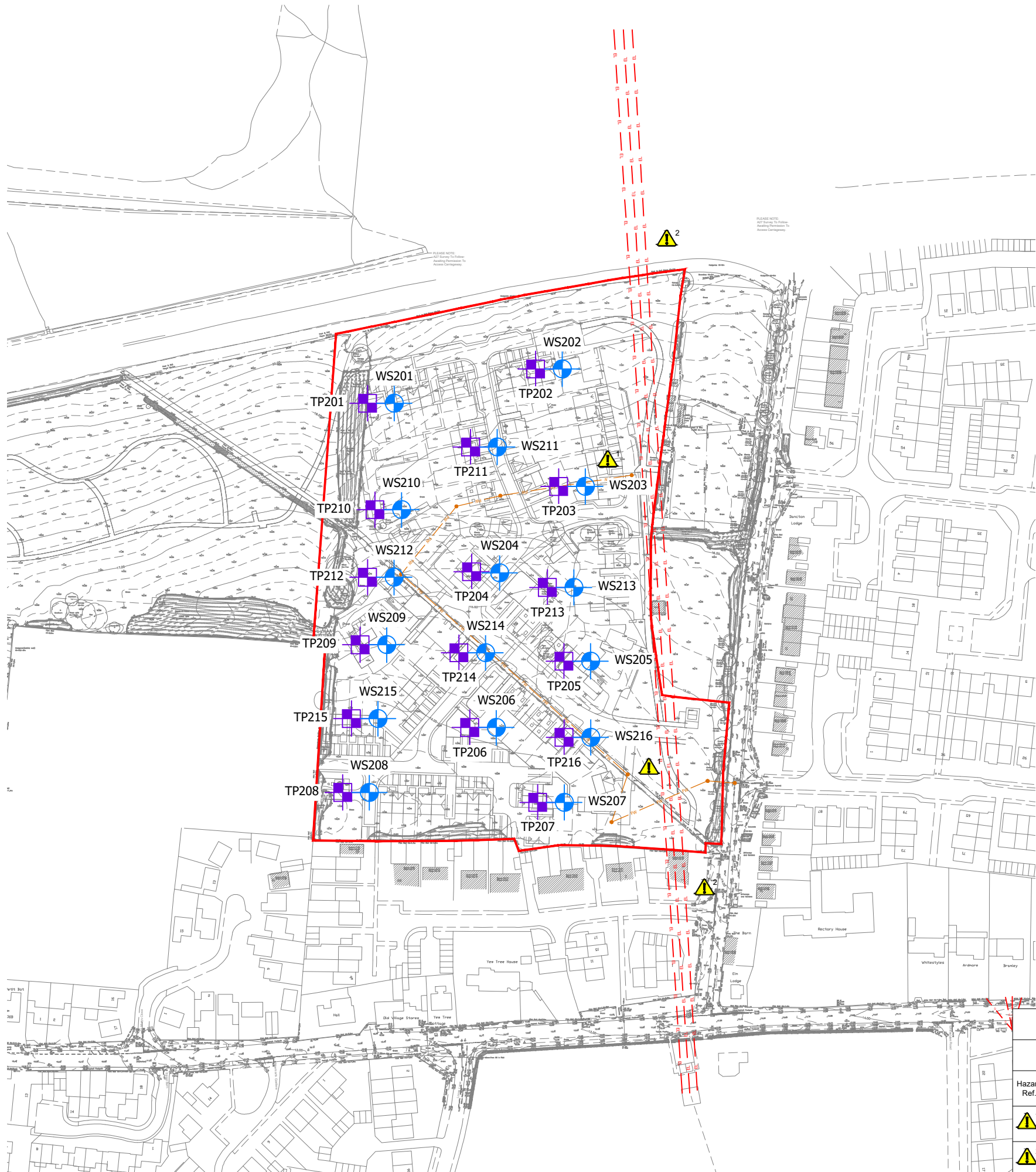
On behalf of:
Persimmon Homes
Thames Valley

Document ID:
ICE0175-BGA-AUG23

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Drawings





Drawing Legend :

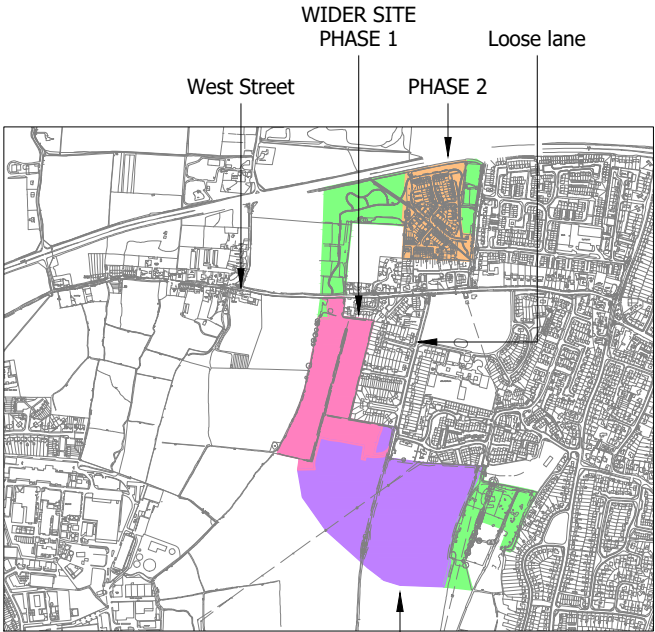
- TP201- Trial Pit
- TP201- Trial Pit
- BH201- Borehole
- WS201- Window Sampler
Dynamic Boreholes
- FW Existing Foul
Water Drain
- EL Existing Overhead
Power Cables
- ELEC Existing nitrogen
charged electric pipe

HAZARD IDENTIFICATION BOX			
This table is provided to assist the Principle Contractor to fulfill their obligations under the CDM Regulations 2015			
Hazard Ref.	Hazard Type (Construction/Maintenance /Use/Adaption)	Hazard Discription	Mitigation Measures / Residual Risk
1	During site investigation works	Existing buried services. Scan prior and during all excavations. Refer to tds (technical & development services) Appendices Ref. PHTV.U.23	
2	During site investigation works	Existing overhead power cables. Refer to tds (technical & development services) Appendices Ref. PHTV.U.23	
3	During site investigation works	Existing nitrogen charged electric pipe on Loose Lane. Refer to tds (technical & development services) Appendices Ref. PHTV.U.23	

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Site Location Plan
Scale 1:20,000

A	x.x.x	First issue	ML	LD
Rev.	Date	Description	BY	CHK

Client:-

Site:- Land South of West Street and West of Loose Lane, Sompington

Drawing Title:- Exploratory Holes Location Plan - Phase 2

Date: July 2023	Scale: 1:2000 @ A3	Sheet No: 01
Drawn: MDL	Checked: LD	Approved: LD

Drawing No.

Exploratory Holes Location Plan - Phase 2
(ICE0175-EHLP-02-REV A)

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Foundation Zoning Legend :

- Allowable Bearing Capacity of 150kPa is achievable at shallow depths (<2.0m) within the Granular Heads Deposits
- Allowable Bearing Capacity of 100kPa is achievable at shallow depths (<2.0m) within the Granular Heads Deposits
- Allowable Bearing Capacity of 75kPa is achievable at shallow depths (<2.0m) within the Cohesive Heads Deposits

Drawing Legend :

- TP201 - Trial Pit
- WS201- Window Sampler Dynamic Boreholes
- FW Existing Foul Water Drain
- EL Existing Overhead Power Cables
- ELEC Existing nitrogen charged electric pipe

Geology Legend :

- Topsoil / Made Ground
- Cohesive Head Deposits (CHD)
- Granular Head Deposits (GHD)
- Tarrant Chalk Member (TCH)

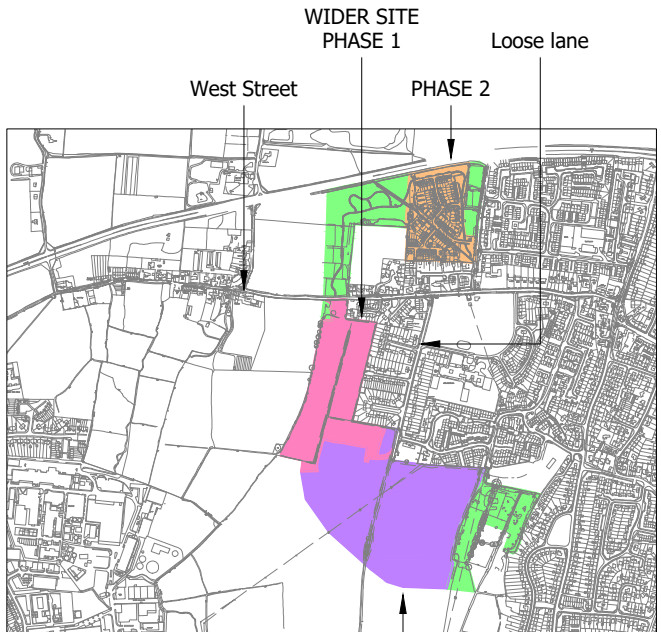
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2	During site investigation works	Existing overhead power cables. Refer to tds (technical & development services) Appendices Ref. PHTV.U.23	
3	During site investigation works	Existing nitrogen charged electric pipe on Loose Lane. Refer to tds (technical & development services) Appendices Ref. PHTV.U.23	

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Site Location Plan

Scale 1:20,000

Rev.	Date	Description	BY	CHK
A	29.08.23	First issue	ML	LD

Client:-



Site:-

Land South of West Street and West of Loose Lane, Sompting

Drawing Title:-

Foundation Zoning Map - Phase 2

Date: July 2023	Scale: 1:2000 @ A3	Sheet No: 01
Drawn: MDL	Checked: LD	Approved: LD

Drawing No.

Foundation Zoning Map - Phase 2
(ICE0175-FZM-02-REV A)



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Appendix A

Exploratory Hole Logs and In-situ Testing Results



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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516596.51 N105460.03	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP201	Location Type TP	Level 18.14m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.27	17.88		Grass over light greyish brown sandy gravelly clay. TOPSOIL	
								Brown and light brown slightly sandy gravelly silty CLAY with rare roots. Gravel is fine to coarse and sub-angular to sub-rounded. HEAD DEPOSITS	1
					1.50	16.64		Light brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments are rare roots. Gravel is fine to coarse and sub-angular to angular. TARRANT CHALK MEMBER	2
					2.23	15.92		End of Borehole at 2.230m	3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.80	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516671.33 N105476.38	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP202	Location Type TP	Level 17.73m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.24	17.49		Grass over light brown sandy gravelly clay. TOPSOIL	
								Brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					1.50	16.23		Light brown slightly gravelly slightly sandy calcareous silty CLAY with occasional chalk fragments. Gravel is fine to medium and sub-rounded. TARRANT CHALK MEMBER	
					2.05	15.68		End of Borehole at 2.050m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.95	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516682.40 N105424.06	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP203	Location Type TP	Level 16.26m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.23	16.04		Grass over light brown sandy gravelly clay. TOPSOIL	
								Brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	
					0.90	15.36		Brown sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					1.20	15.06		Brown very gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	
					1.35	14.92		Brown and light brown slightly sandy slightly gravelly silty CLAY with rare roots and rootlets. Gravel is fine to coarse and sub-angular to sub-rounded. HEAD DEPOSITS	
					2.00	14.26		End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.00	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516644.44 N105383.22	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP204	Location Type TP	Level 15.08m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.21	14.87		Grass over light brown sandy gravelly clay. TOPSOIL	
								Brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse and sub-rounded to angular. HEAD DEPOSITS	1
					1.50	13.58		Light brown very gravelly calcareous silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
					2.00	13.08		End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.90	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516685.25 N105344.63	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP205	Location Type TP	Level 14.62m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	14.37		Grass over light brown sandy gravelly clay. TOPSOIL	
					1.20	13.42		Light brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					1.80	12.82		Brown and light brown sandy silty clayey GRAVEL. Gravel is fine to coarse and sub-rounded to angular. HEAD DEPOSITS	
								End of Borehole at 1.800m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.88	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516642.33 N105315.40	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP206	Location Type TP	Level 14.09m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.21	13.88		Grass over light brown sandy gravelly clay. TOPSOIL	
					1.34	12.75		Brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					2.00	12.09		Brown and light brown sandy silty clayey GRAVEL. Gravel is fine to coarse and sub-rounded to angular. HEAD DEPOSITS	
								End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.00	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516673.79 N105281.50	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP207	Location Type TP	Level 14.14m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.19	13.95		Grass over light brown sandy gravelly clay. TOPSOIL	
					1.10	13.04		Brown slightly sandy gravelly silty CLAY with occasional roots and rootlets. Gravel is fine to coarse and sub-rounded to angular. HEAD DEPOSITS	1
					2.00	12.14		Orange brown very gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	2
								End of Borehole at 2.000m	3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.91	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516585.91 N105286.74	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP208	Location Type TP	Level 13.39m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.19	13.20		Grass over pale brown sandy gravelly clay. TOPSOIL	
					0.72	12.67		Brown slightly sandy gravelly silty CLAY with occasional roots and rootlets. Gravel is fine to coarse and sub-angular to sub-rounded. HEAD DEPOSITS	
					1.80	11.59		Light brown creamy very gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	1
								End of Borehole at 1.800m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.92	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516593.43 N105353.65	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP209	Location Type TP	Level 14.52m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	14.32		Grass over pale brown sandy gravelly clay. TOPSOIL	
					0.80	13.72		Light brown slightly gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	
					1.10	13.42		Brown very gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					2.00	12.52		Brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments. Gravel is fine to coarse and sub-angular. TARRANT CHALK MEMBER	
								End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.80	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516599.96 N105412.96	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP210	Location Type TP	Level 16.73m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	16.52		Grass over light greyish brown sandy gravelly clay. TOPSOIL	
					1.40	15.32		Brown orange brown sandy silty CLAY. HEAD DEPOSITS	1
					1.80	14.92		Brown orange brown sandy silty CLAY with flint gravel. HEAD DEPOSITS	
					2.00	14.72		Orangish brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments. Gravel is fine to coarse and sub-angular. TARRANT CHALK MEMBER	2
								End of Borehole at 2.000m	
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.60	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516645.90 N105447.32	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP211	Location Type TP	Level 16.96m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.26	16.70		Grass over light greyish brown sandy gravelly clay. TOPSOIL	
					1.08	15.88		Orange brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					2.30	14.66		Orangish brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments. Gravel is fine to medium and sub-angular. TARRANT CHALK MEMBER	2
								End of Borehole at 2.300m	3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.50	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516685.70 N105377.94	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP212	Location Type TP	Level 14.91m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	14.71		Grass over light brown sandy gravelly clay. TOPSOIL	
					1.10	13.81		Brown slightly sandy gravelly silty CLAY with rare roots and rootlets. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	1
					2.00	12.91		Light brown sandy very gravelly calcareous silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
								End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.90	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516685.33 N105317.80	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP213	Location Type TP	Level 14.43m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.27	14.16		Grass over light brown sandy gravelly clay. TOPSOIL	
								Brown sandy silty clayey GRAVEL with occasional rootlets. Gravel is fine to coarse and sub-rounded to sub-angular. HEAD DEPOSITS	1
					1.15	13.28		Brown slightly sandy silty gravelly CLAY. Gravel is fine to coarse and angular to sub-angular. HEAD DEPOSITS	
					2.00	12.43		End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.10	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516598.07 N105384.56	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP214	Location Type TP	Level 15.33m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	15.13		Grass over pale brown sandy gravelly clay. TOPSOIL	
					1.08	14.25		Pale light brown slightly gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					1.36	13.97		Brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	
					2.00	13.33		Orangish brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments. Gravel is fine to coarse and sub-angular to angular. TARRANT CHALK MEMBER	
								End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.70	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 14/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516649.63 N105339.30	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP215	Location Type TP	Level 14.58m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.24	14.34		Grass over pale brown slightly gravelly sandy silty clay. TOPSOIL	
					0.96	13.62		Light brown gravelly sandy silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. HEAD DEPOSITS	1
					1.53	13.05		Brown and light brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	
					2.00	12.58		Light brown very gravelly slightly sandy calcareous silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	2
								End of Borehole at 2.000m	3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.98	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
---	--



Trial Pit Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 14/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516591.48 N105316.00	
Project No. : ICE0175		Crew Name:		Equipment:	
Location Number TP216	Location Type TP	Level 14.12m AoD	Logged By LD	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	13.92		Grass over pale brown slightly gravelly sandy silty clay. TOPSOIL	
					0.95	13.17		Brown sandy silty CLAY. HEAD DEPOSITS	1
					1.40	12.72		Dark brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse and sub-rounded to angular. HEAD DEPOSITS	
					2.00	12.12		Light brown very gravelly calcareous silty CLAY. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
								End of Borehole at 2.000m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
1.80	0.25	Stable					

Remarks Pit remained dry and backfilled with arisings on completion.	
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Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516600.77 N105462.25	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS201	Hole Type WS	Level 18.23m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.27	17.96		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.50 - 1.00	D					Stiff light brown gravelly sandy silty CLAY. HEAD DEPOSITS	
		1.00	SPT	N=19 (2,2/3,5,5,6)	1.10	17.13			
		1.20 - 1.50	ES					Light brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments are rare roots. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	
		1.50 - 2.00	D						2
		2.00 - 2.50	D		2.00	16.23		Firm brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse and angular to sub-angular. HEAD DEPOSITS	
		2.00	SPT	N=9 (4,5/4,2,2,1)					
					2.50	15.73			
		3.00	SPT	N=29 (5,5/6,6,8,9)				Stiff becoming very stiff light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		3.50 - 4.00	D						3
		4.00	SPT	N=52 (7,8/12,13,12,15)	4.00	14.23			
								End of Borehole at 4.00m	4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516676.52 N105477.82	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS202	Hole Type WS	Level 17.72m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	17.52		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.70 - 1.00	D					Firm brown slightly sandy silty CLAY with rare fine to medium gravel. HEAD DEPOSITS	
		1.00	SPT	N=12 (1,1/2,3,3,4)					
		1.20 - 1.50	D						2
					1.50	16.22		Firm light brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments. Gravel is fine to medium and sub-angular. TARRANT CHALK MEMBER	
		1.70 - 2.00	D						
		1.70 - 2.00	ES						
		2.00	SPT	N=10 (3,3/2,2,3,3)					
		2.20 - 2.50	D						
									3
		2.70 - 3.00	D						
		3.00	SPT	N=37 (3,6/5,9,11,12)					
					3.50	14.22		Light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	4
		3.70 - 4.00	D						
		4.00	SPT	N=53 (6,7/12,14,13,14)	4.00	13.72			
								End of Borehole at 4.00m	5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Borehole remained dry and backfilled with arisings on completion.





Project Name: West Sompting (Phase II), West Sussex					Client: Persimmon Homes Thames Valley					Date: 12/07/2023				
Location: Sompting, West Sussex, BN15 0DQ					Contractor: BDS					Co-ords: E516686.98 N105424.78				
Project No. : ICE0175					Crew Name:					Drilling Equipment:				
Borehole Number WS203			Hole Type WS		Level 16.20m AoD			Logged By		Scale 1:25		Page Number Sheet 1 of 1		
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description						
		Depth (m)	Type	Results										
					0.20	16.00		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL				1		
								Stiff brown orange brown gravelly sandy silty CLAY. HEAD DEPOSITS						
		0.70 - 1.00	D											
		1.00	SPT	N=27 (2,2/4,8,8,7)										
		1.20 - 1.50	D											
					1.40	14.80								
		1.70 - 2.00	D					Stiff to very stiff light brown slightly sandy slightly gravelly silty CLAY with numerous fine chalk fragments. Gravel is fine to coarse and sub-angular to angular. TARRANT CHALK MEMBER						
		2.00	SPT	N=30 (6,6/7,8,8,7)										
		2.20 - 2.50	D											
		2.70 - 3.00	D											
3.00	SPT	N=41 (5,9/10,10,11,10)												
3.70 - 4.00	D													
4.00	SPT	N=52 (19,12/14,13,13,12)	4.00	12.20		End of Borehole at 4.00m				4				
											5			
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation						
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation			
Remarks														
Borehole remained dry and backfilled with arisings on completion.														



Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516648.41 N105385.80	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS204	Hole Type WS	Level 15.17m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.21	14.96		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	
								Stiff brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse and angular to sub-angular. HEAD DEPOSITS	
		0.70 - 1.00	D						
		1.00	SPT	N=22 (8,7/7,5,5,5)	1.00	14.17		Stiff to very stiff brown slightly sandy slightly gravelly calcareous silty CLAY with chalk fragments. Gravel is fine to coarse and sub-angular to sub-rounded. TARRANT CHALK MEMBER	1
		1.20 - 1.50 1.20 - 1.50	D ES						
		1.70 - 2.00	D						
		2.00	SPT	N=27 (10,7/9,6,6,6)					2
		2.70 - 3.00	D						
		3.00	SPT	N=54 (10,9/11,14,14,15)					3
		3.70 - 4.00	D						
		4.00	SPT	N=58 (11,10/14,15,15,14)	4.00	11.17		End of Borehole at 4.00m	4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 12/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516689.18 N105345.83	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS205	Hole Type WS	Level 14.67m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	14.42		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.70 - 1.00	D					Brown orange brown gravelly sandy silty CLAY. HEAD DEPOSITS	
		1.00	SPT	N=21 (2,2/6,5,5,5)	0.95	13.72		Medium dense light brown clayey silty sandy GRAVEL. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	
		1.20 - 1.50	D						
		1.70 - 2.00	D		1.50	13.17		Dense to very dense brown silty clayey sandy GRAVEL. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	2
		2.00	SPT	N=41 (4,4/10,9,11,11)					
		2.20 - 2.50	D						
		2.70 - 3.00	D						3
		3.00	SPT	N=31 (8,10/8,6,5,12)					
		3.70 - 4.00	D						
		4.00	SPT	N=50 (10,11/12,14,12,12)	4.00	10.67		End of Borehole at 4.00m	4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516646.86 N105315.92	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS206	Hole Type WS	Level 14.13m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20 - 0.50	D		0.21	13.92		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.70 - 1.00	D					Firm to stiff light brown gravelly sandy silty CLAY. HEAD DEPOSITS	
		1.00	SPT	N=17 (4,3/3,4,5,5)	1.00	13.13		Off white gravelly silty CLAY. Gravel is fine to coarse and angular to sub-angular. TARRANT CHALK MEMBER	
		1.20 - 1.50 1.20 - 1.50	D ES		1.50	12.63		Dense light grey clayey silty very sandy GRAVEL. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	
		1.70 - 2.00	D						
		2.00	SPT	N=44 (5,7/13,11,10,10)	2.30	11.83		Stiff brown gravelly sandy silty CLAY with calcareous fragments. TARRANT CHALK MEMBER	
		2.70 - 3.00	D						
		3.00	SPT	N=22 (4,3/4,5,6,7)	3.00	11.13		Stiff to very stiff light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		3.70 - 4.00	D						
		4.00	SPT	N=58 (10,13/12,14,16,16)	4.00	10.13		End of Borehole at 4.00m	
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516677.51 N105282.14	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS207	Hole Type WS	Level 14.16m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20 - 0.50	D		0.19	13.97		Grass over greyish brown slightly gravelly sandy silty clay with brick fragments. MADE GROUND	1
		0.70 - 1.00	D					Firm brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse and angular to sub-angular. HEAD DEPOSITS	
		1.00	SPT	N=13 (2,2/3,3,4,3)	1.00	13.16		Medium dense brown sandy silty clayey GRAVEL with occasional roots and rootlets. Gravel is fine to coarse and sub-angular to angular. HEAD DEPOSITS	
		1.20 - 1.50	D						
		2.00	SPT	N=17 (2,2/3,4,5,5)	2.10	12.06			
		2.50 - 3.00	D					Very stiff light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		3.00	SPT	N=57 (11,12/13,12,16,16)	3.00	11.16		End of Borehole at 3.00m	3
									4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

- Refused at 3.0m depth
- Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516589.56 N105286.60	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS208	Hole Type WS	Level 13.41m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20 - 0.50	D		0.20	13.21		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.70 - 1.00	D		0.75	12.66		Brown slightly sandy gravelly silty CLAY with occasional roots and rootlets. Gravel is fine to coarse and sub-angular to sub-rounded.	
		1.00	SPT	N=47 (8,8/10,13,12,12)	1.10	12.31		Very stiff light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		1.20 - 1.50	D					Very stiff off-white very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		1.70 - 2.00	D						2
		2.00	SPT	N=58 (10,12/14,15,13,16)					
		2.70 - 3.00	D						
		3.00	SPT	N=66 (10,13/14,14,16,22)					3
		3.70 - 4.00	D						
		4.00	SPT	N=64 (12,13/15,17,17,15)	4.00	9.41			
								End of Borehole at 4.00m	4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Borehole remained dry and backfilled with arisings on completion.





Window Sampling Log

Project Name: West Sompting (Phase II), West Sussex		Client: Persimmon Homes Thames Valley		Date: 13/07/2023	
Location: Sompting, West Sussex, BN15 0DQ		Contractor: BDS		Co-ords: E516597.28 N105353.20	
Project No. : ICE0175		Crew Name:		Drilling Equipment:	
Borehole Number WS209	Hole Type WS	Level 14.48m AoD	Logged By	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	14.28		Grass over pale brown slightly gravelly sandy silty clay. TOPSOIL	1
		0.70 - 1.00	D					Firm brown slightly sandy slightly gravelly silty CLAY with rare rootlets. Gravel is fine to medium and sub-angular to angular. HEAD DEPOSITS	
		1.00	SPT	N=15 (2,2/2,3,5,5)	1.00	13.48		Very stiff light brown very gravelly calcareous silty CLAY with occasional fine to medium chalk fragments.. Gravel is fine to coarse and sub-angular to sub-rounded flint gravel. TARRANT CHALK MEMBER	
		1.70 - 2.00	D						
		2.00	SPT	N=43 (7,10/12,13,10,8)					
		2.70 - 3.00	D						
		3.00	SPT	N=53 (11,10/13,13,14,13)	3.00	11.48		End of Borehole at 3.00m	3
									4
									5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

1. Refused at 3.0m depth
2. Borehole remained dry and backfilled with arisings on completion.





Project Name: West Sompting (Phase II), West Sussex					Client: Persimmon Homes Thames Valley				Date: 13/07/2023			
Location: Sompting, West Sussex, BN15 0DQ					Contractor: BDS				Co-ords: E516604.04 N105414.21			
Project No. : ICE0175					Crew Name:				Drilling Equipment:			
Borehole Number WS210		Hole Type WS			Level 16.62m AoD		Logged By		Scale 1:25		Page Number Sheet 1 of 1	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
		Depth (m)	Type	Results								
		0.70 - 1.00	D		0.21	16.41		Grass over greyish brown slightly gravelly sandy silty clay. TOPSOIL		1		
								Firm orange brown gravelly sandy silty CLAY. HEAD DEPOSITS				
		1.00	SPT	N=14 (2,2/2,4,4,4)	1.00	15.62		Brown slightly sandy slightly gravelly silty CLAY with traces of fine rootlets. Gravel is fine to coarse and angular to sub-angular. HEAD DEPOSITS				
								1.20 - 1.50	D			D
		1.70 - 2.00	D							Stiff to very stiff light brown slightly sandy gravelly calcareous silty CLAY with occasional fine to medium chalk fragments. Gravel is fine to coarse and sub-angular. TARRANT CHALK MEMBER		
								2.00	SPT	N=19 (3,5/5,4,4,6)	2.00	14.62
		2.20 - 2.50	D									
								2.70 - 3.00	D			
		3.00	SPT	N=48 (9,10/10,11,13,14)								
								3.70 - 4.00	D			
4.00	SPT	N=56 (10,12/13,14,14,15)	4.00	12.62		End of Borehole at 4.00m						
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	
Remarks												
Borehole remained dry and backfilled with arisings on completion.												

Appendix B

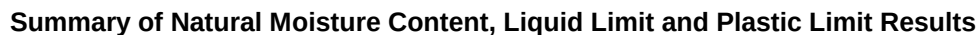
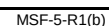
Geotechnical Testing Results



					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name				Programme					
33802		Sompting, West Sussex, BN15 0DQ				Samples received		19/07/2023			
Project No.		Client				Schedule received		18/07/2023			
ICE0175		IBEX Consulting Engineers Limited				Project started		20/07/2023			
						Testing Started		08/08/2023			
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
WS108	-	4.00	-	D	Off white crushed CHALK in a putty chalk matrix (chalk gravel is fmc angular to sub-angular)	23					
WS109	-	1.00	-	D	Brown slightly sandy very silty CLAY with rare fmc gravel and fine rootlets	17					
WS109	-	3.00	-	D	Light brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular)	14	54	23	16	7	Sample washed to obtain test fraction
WS110	-	1.00	-	D	Brown slightly sandy slightly gravelly very silty CLAY (gravel is fmc and angular to sub-angular)	7.3					
WS201	-	1.50	2.00	D	Light brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments are rare roots (gravel is fmc and sub-angular to angular)	11					
WS201	-	2.00	2.50	D	Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)	21	65	30	18	12	Sample washed to obtain test fraction
WS202	-	1.50	-	D	Brown slightly sandy silty CLAY with rare fm gravel	15	97	41	19	22	
WS203	-	2.50	-	D	Brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-angular to angular)	10					
WS204	-	1.00	-	D	Brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular)	12	53	48	18	30	Sample washed to obtain test fraction
WS205	-	1.50	-	D	Light brown clayey silty sandy GRAVEL (gravel is fmc and sub-angular to angular)	6.0					
WS205	-	2.50	-	D	Brown silty clayey sandy GRAVEL (gravel is fmc and sub-angular to angular)	5.2					
WS206	-	1.50	-	D	Off white gravelly silty CLAY (gravel is fmc and angular to sub-angular)	4.2					

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com	Checked and Approved Initials J.P Date: 17/08/2023
	NOTE: The report shall not be reproduced except in full without authority of the laboratory		
	2519		Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS108

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 2.00

Soil Description

Light brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m -

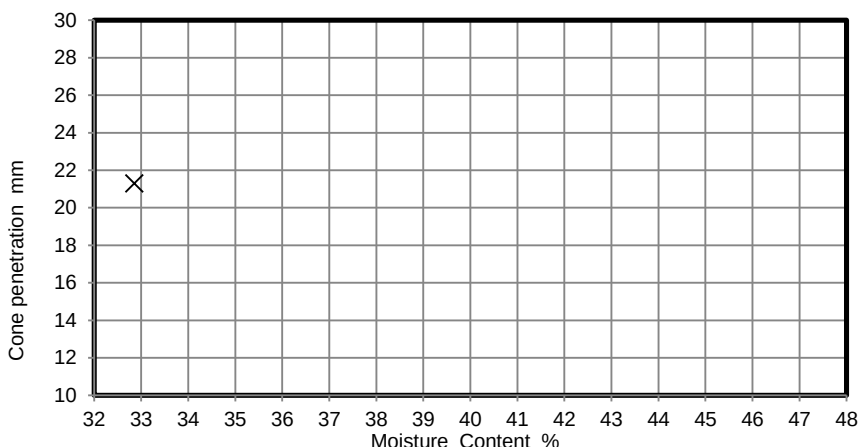
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

83

%

LIQUID LIMIT

32

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

13

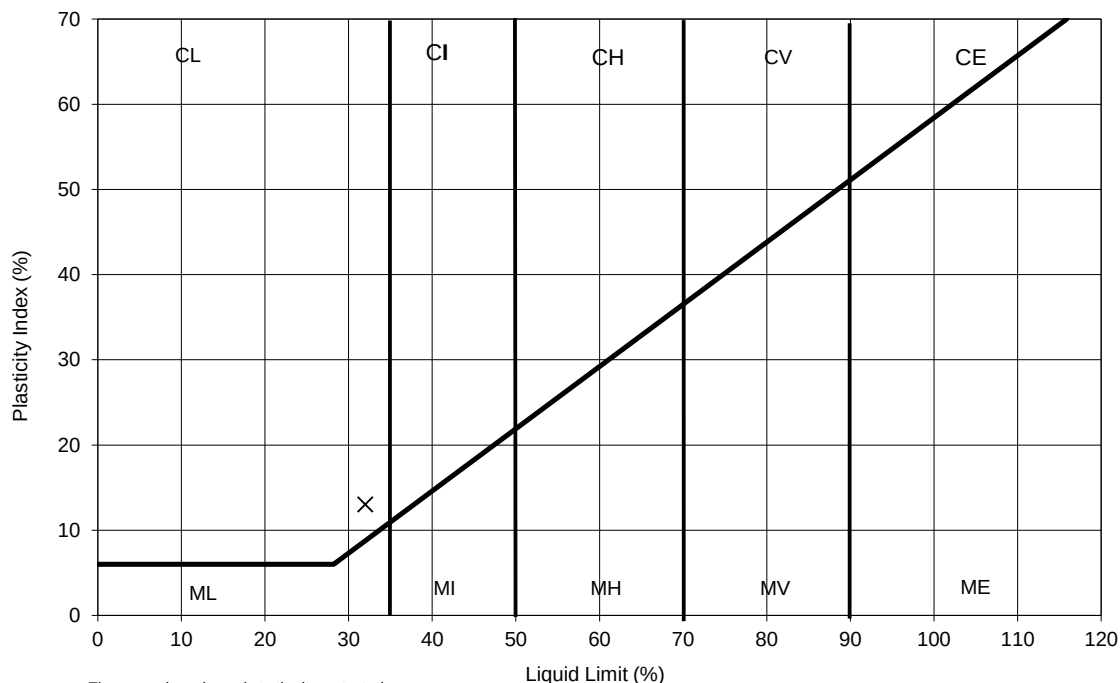
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 17/08/2023

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS109

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 3.00

Soil Description

Light brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m -

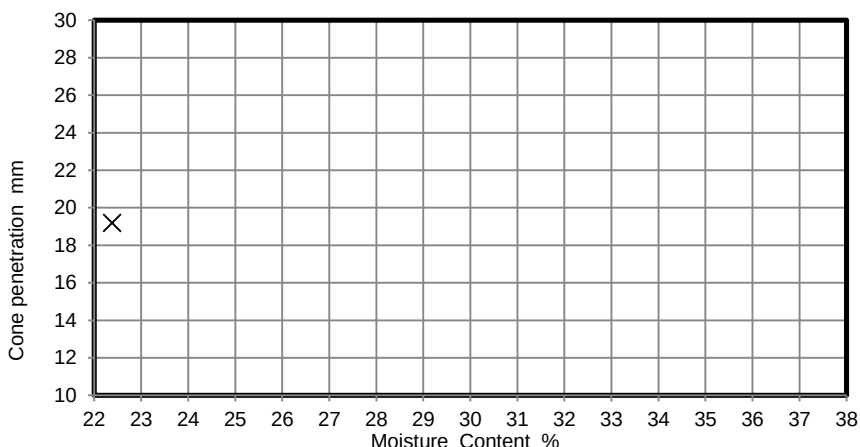
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

54

%

LIQUID LIMIT

23

%

PLASTIC LIMIT

16

%

PLASTICITY INDEX

7

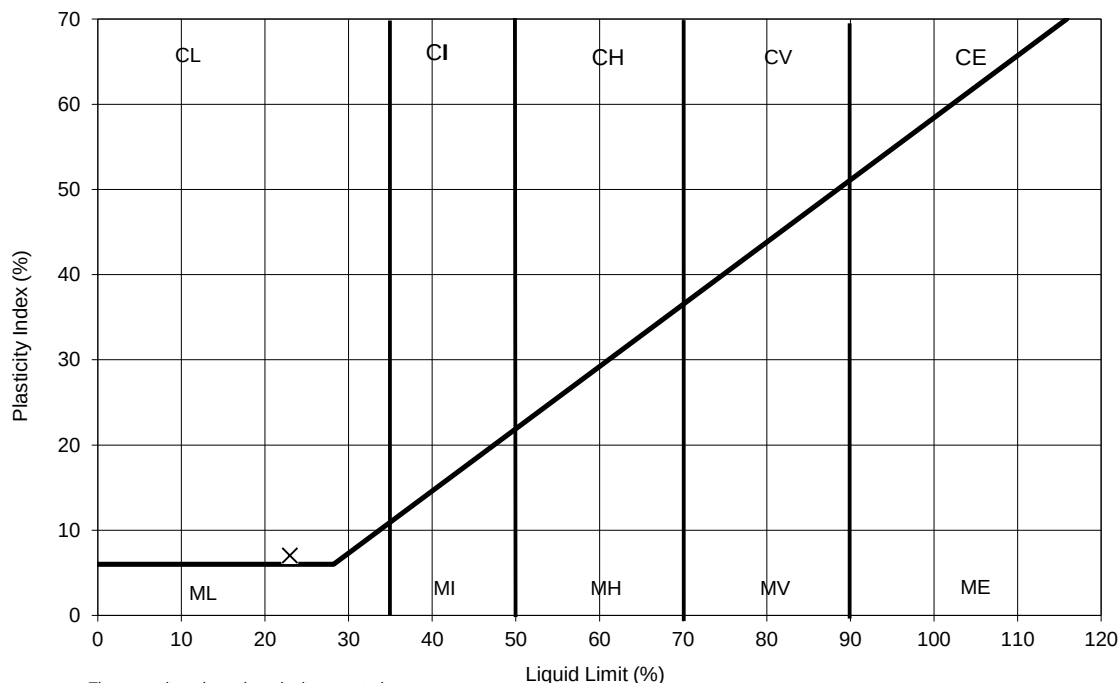
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 17/08/2023

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS201

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 2.00

Soil Description

Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m 2.50

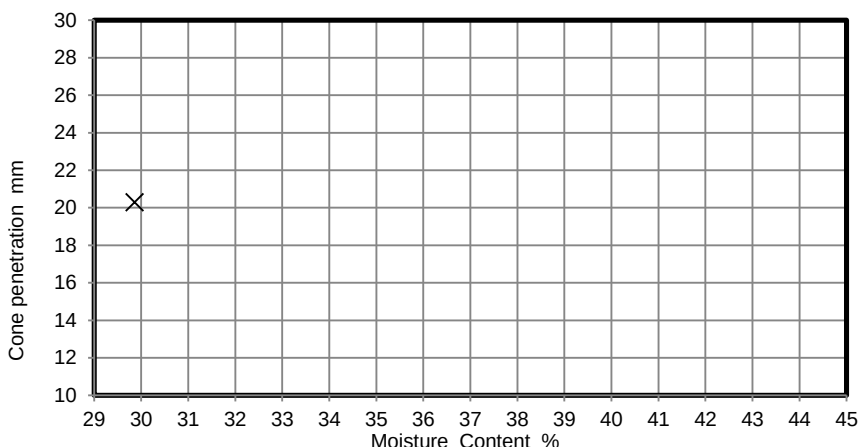
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

65

%

LIQUID LIMIT

30

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

12

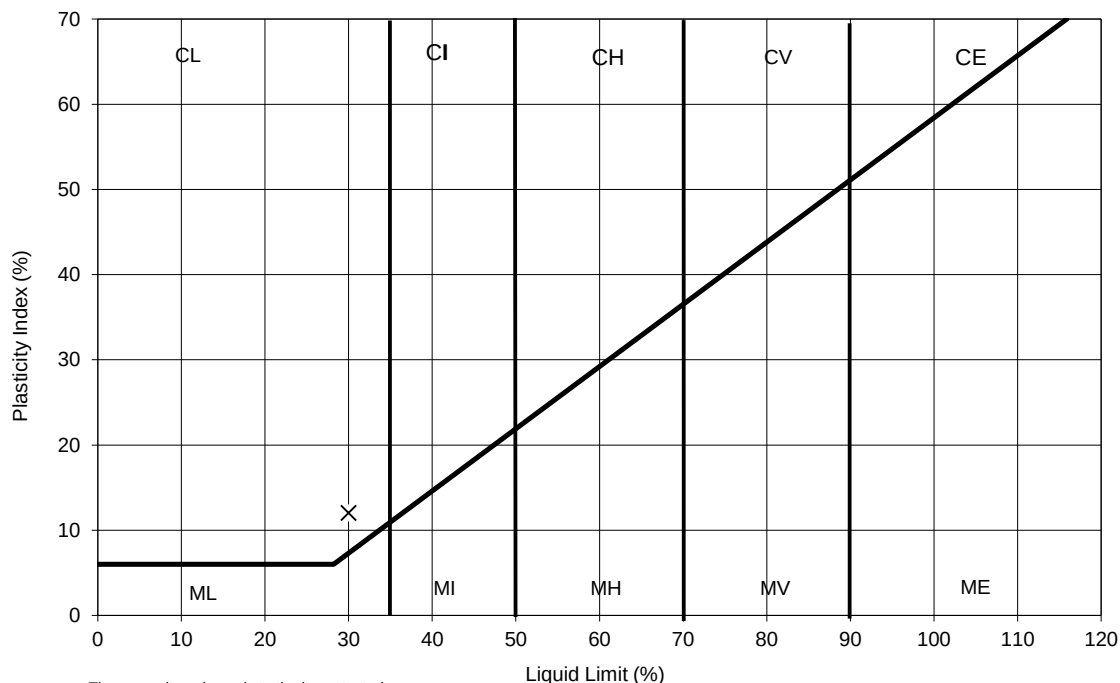
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 17/08/2023

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS202

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 1.50

Soil Description

Brown silty CLAY with traces of sand and fm gravel

Depth Base m -

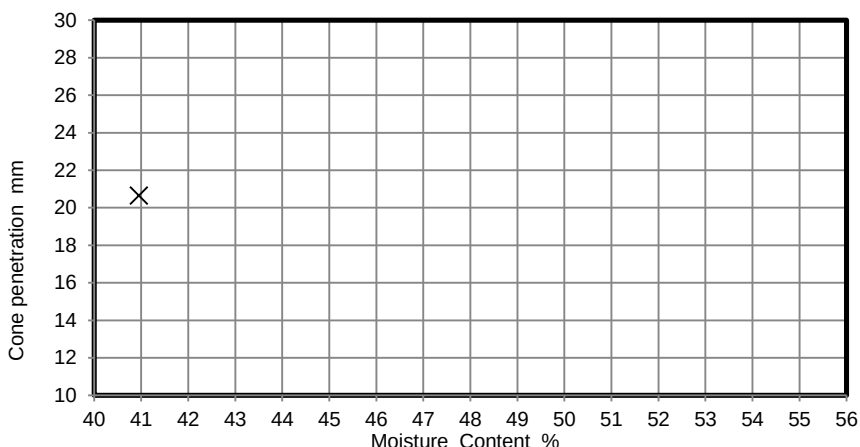
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

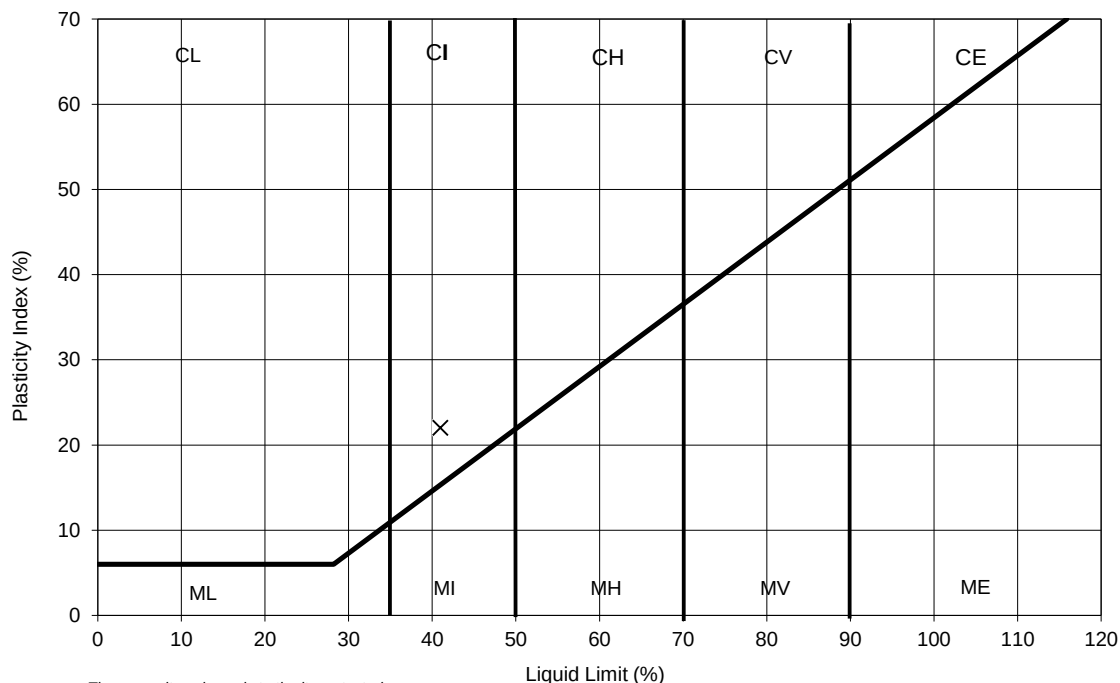
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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Initials: J.P

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS204

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 1.00

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m -

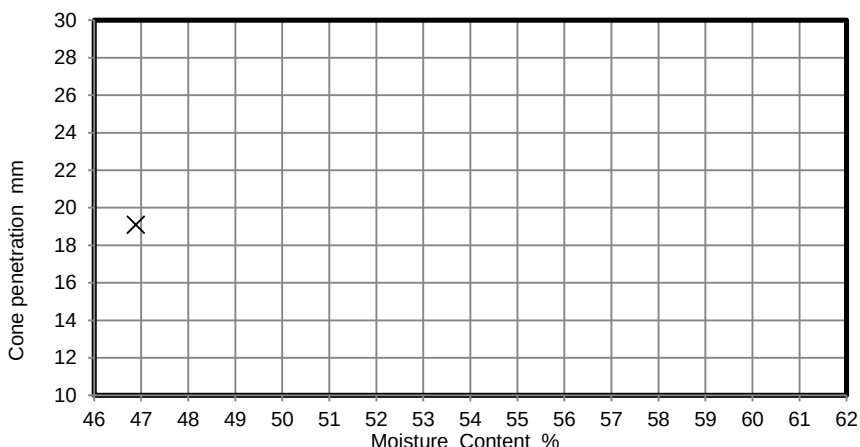
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

53

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

30

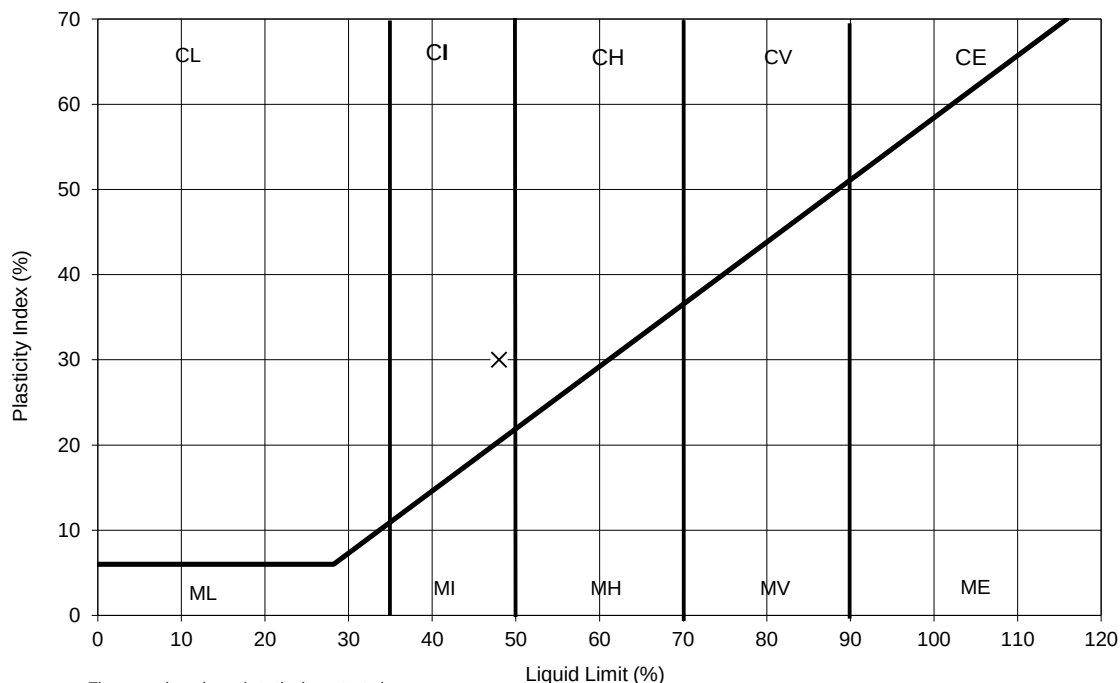
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS207

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 1.00

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m -

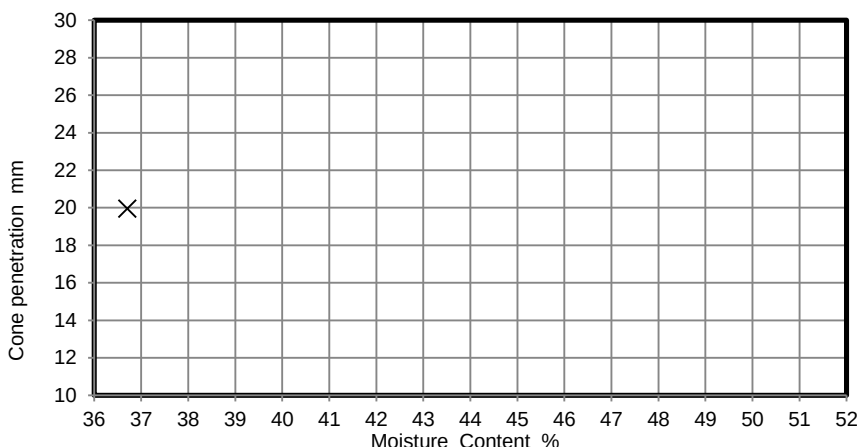
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023


NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

34

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

16

%

PLASTICITY INDEX

21

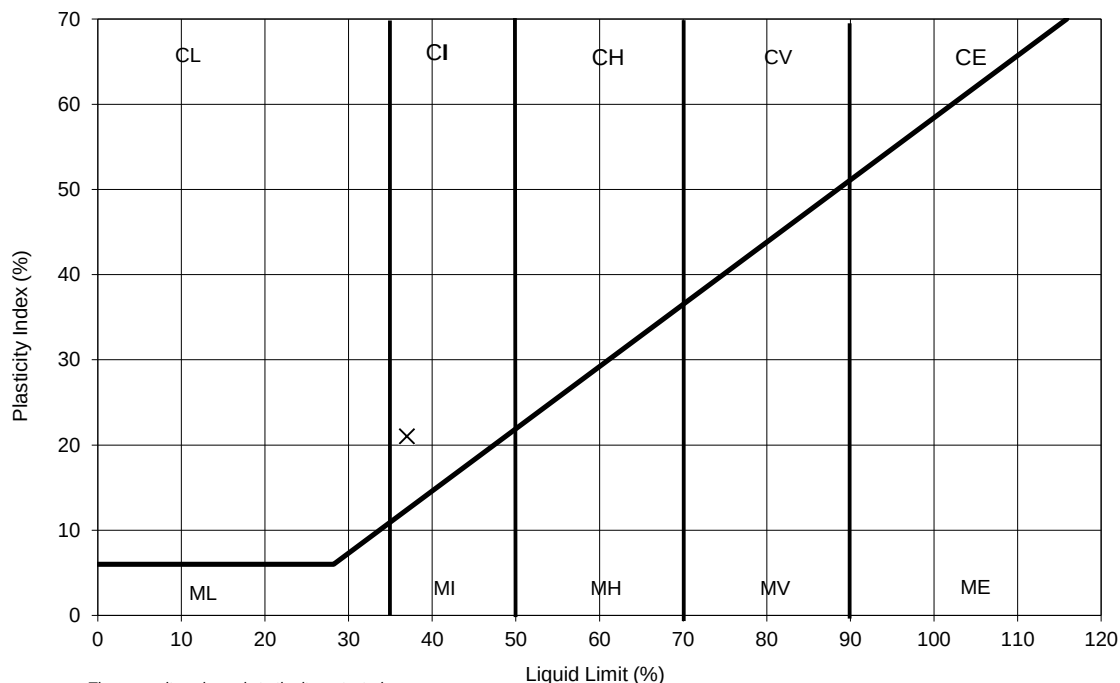
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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MSF-5 R2



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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33802

Borehole/Pit No. WS210

Site Name Sompting, West Sussex, BN15 0DQ

Sample No. -

Project No. ICE0175

Client

IBEX Consulting Engineers Limited

Depth Top m 2.00

Soil Description

Yellowish brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)

Depth Base m -

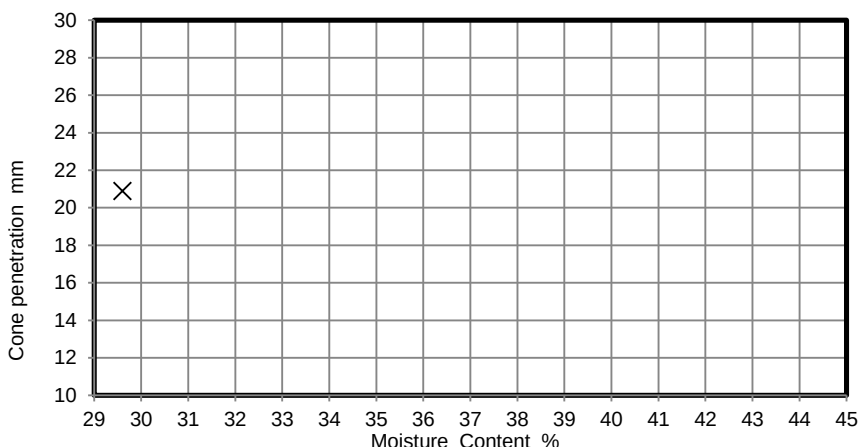
Sample Type D

Samples received 19/07/2023

Schedules received 18/07/2023

Project Started 20/07/2023

Date Tested 08/08/2023



NATURAL MOISTURE CONTENT

13

%

% PASSING 425µm SIEVE

66

%

LIQUID LIMIT

29

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

12

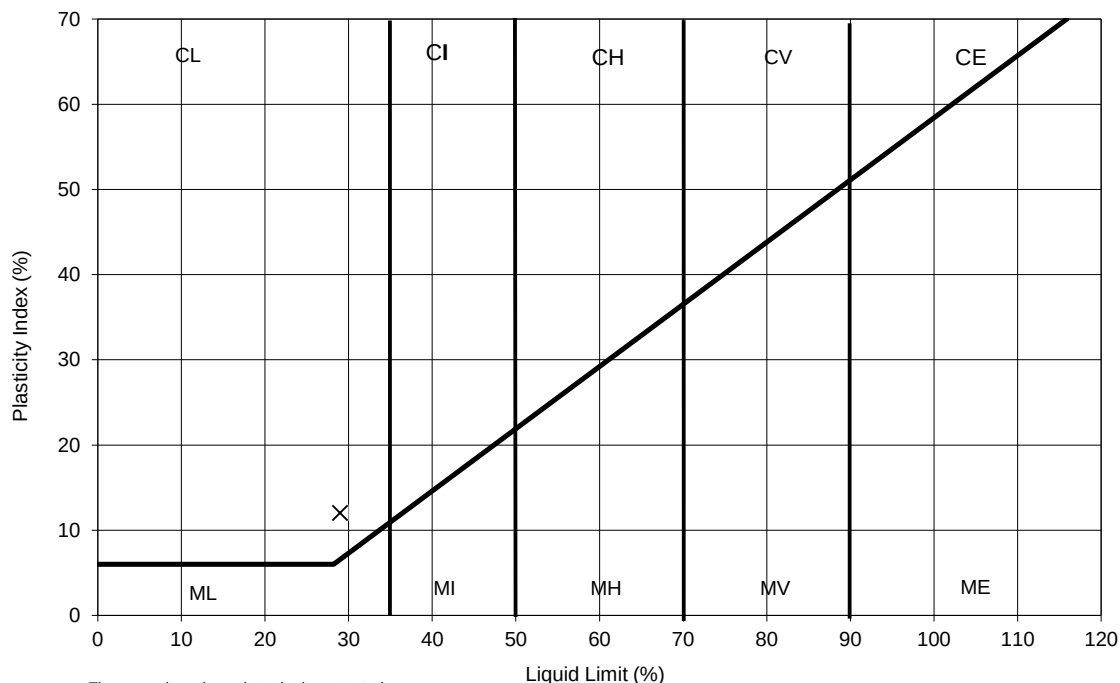
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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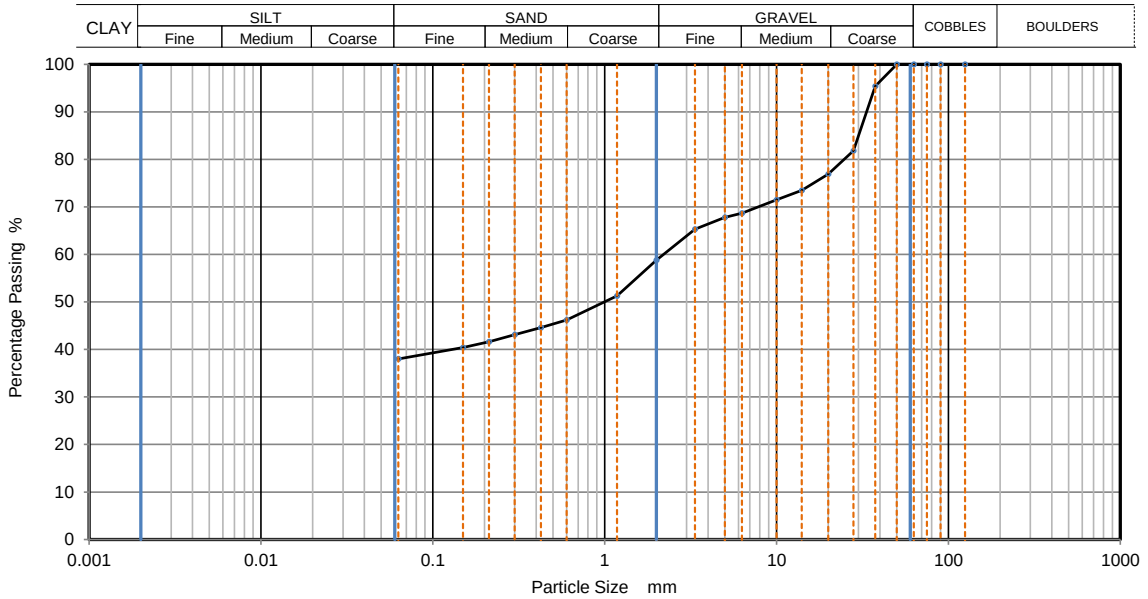
MSF-5 R2



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP201	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50	m
Soil Description	Brown and light brown slightly sandy gravelly silty CLAY with rare roots (gravel is fmc and sub-angular to sub-rounded)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	10/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	95		
28	82		
20	77		
14	74		
10	72		
6.3	69		
5	68		
3.35	65		
2	59		
1.18	51		
0.6	46		
0.425	45		
0.3	43		
0.212	42		
0.15	40		
0.063	38		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	41.22
Sand	20.78
Fines <0.063mm	38.01

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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Date: 17/08/2023

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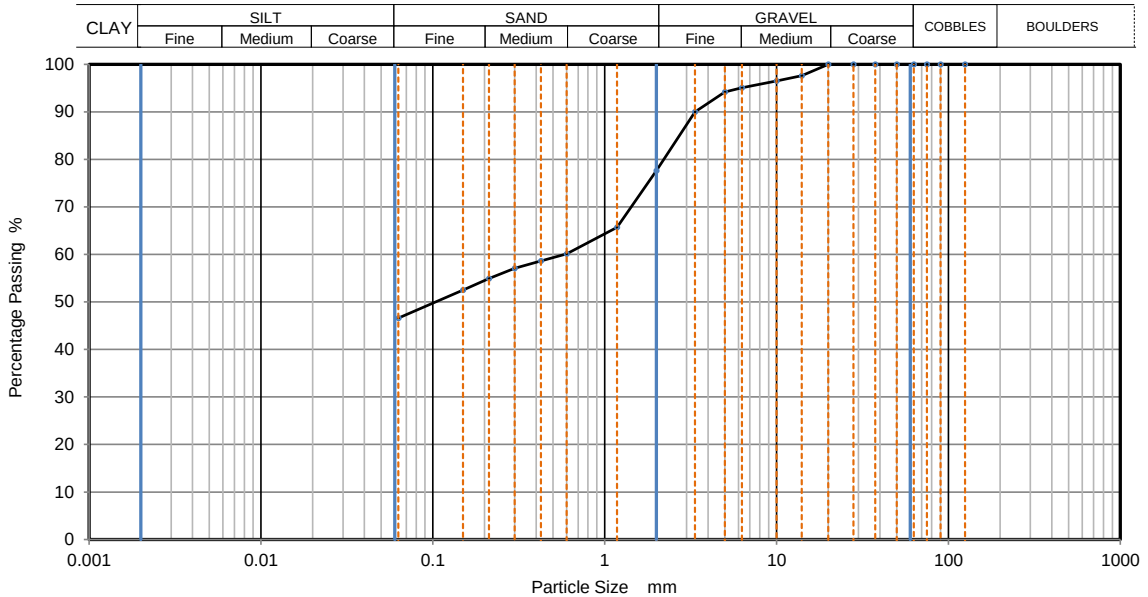
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP202	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00	m
Soil Description	Light brown slightly gravelly slightly sandy calcareous silty CLAY with occasional chalk fragments (gravel is fm and sub-rounded)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	11/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	95		
5	94		
3.35	90		
2	78		
1.18	66		
0.6	60		
0.425	59		
0.3	57		
0.212	55		
0.15	53		
0.063	47		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	22.41
Sand	30.96
Fines <0.063mm	46.63

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

Remarks
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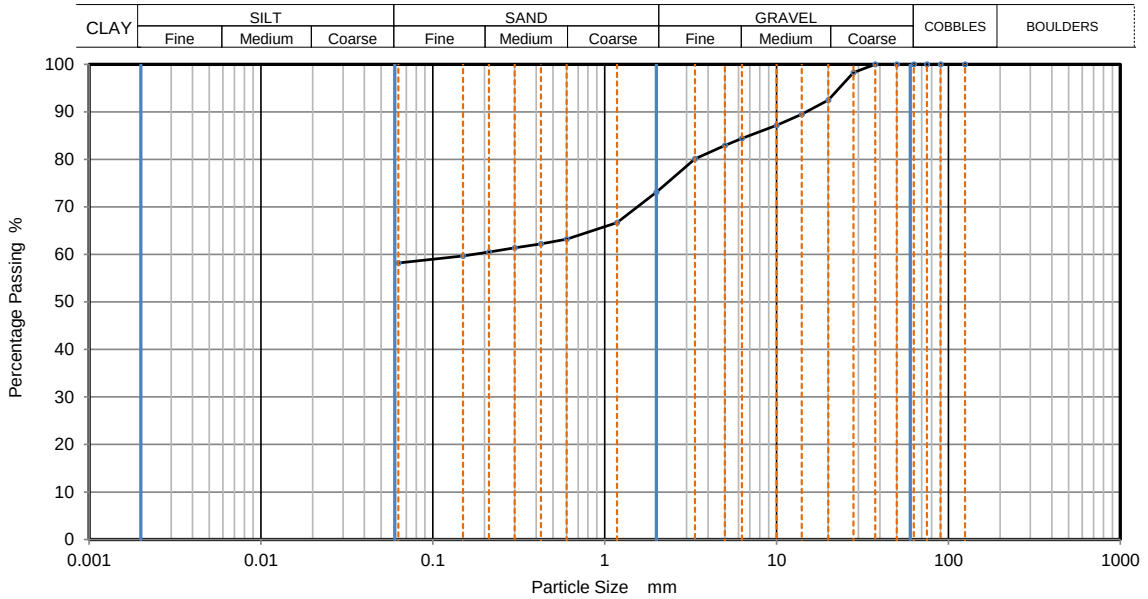
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP203	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00	m
Soil Description	Brown and light brown slightly sandy slightly gravelly silty CLAY with rare roots and rootlets (gravel is fmc and sub-angular to sub-rounded)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	15/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	98		
20	93		
14	90		
10	87		
6.3	84		
5	83		
3.35	80		
2	73		
1.18	67		
0.6	63		
0.425	62		
0.3	61		
0.212	61		
0.15	60		
0.063	58		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	26.92
Sand	14.85
Fines <0.063mm	58.23

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

Remarks
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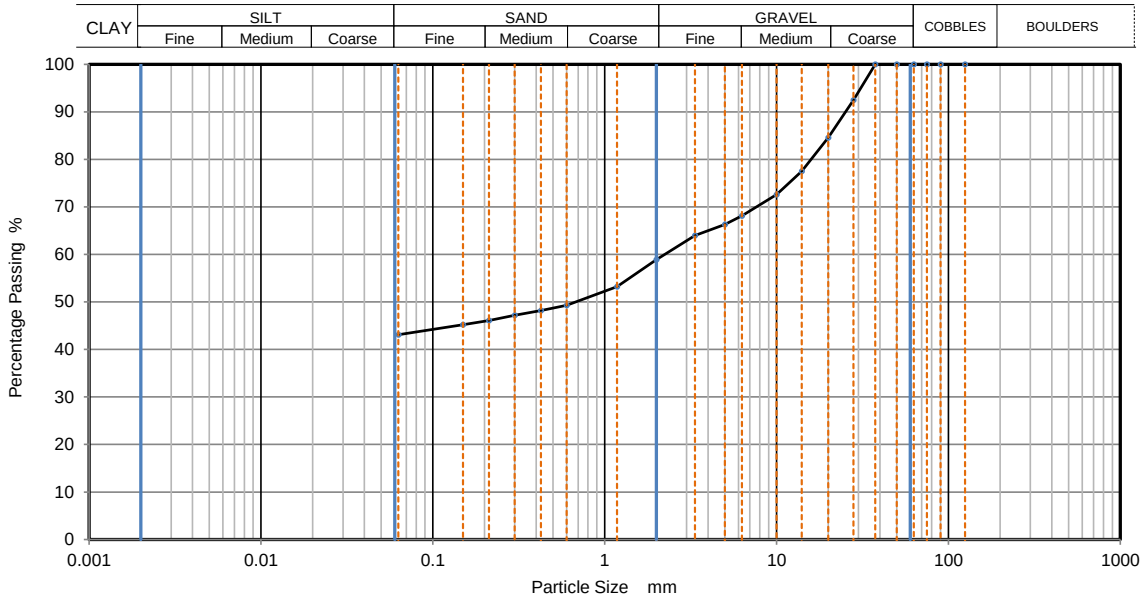
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP204	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50	m
Soil Description	Brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-rounded to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	15/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	85		
14	78		
10	73		
6.3	68		
5	66		
3.35	64		
2	59		
1.18	53		
0.6	49		
0.425	48		
0.3	47		
0.212	46		
0.15	45		
0.063	43		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	41.05
Sand	15.81
Fines <0.063mm	43.13

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

Remarks

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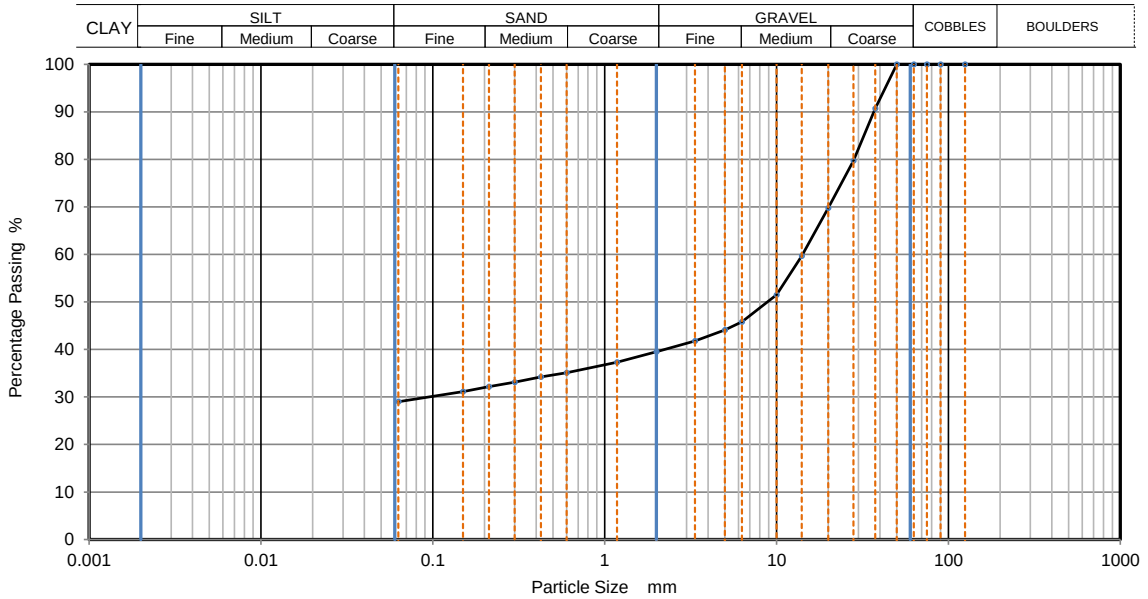
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP205	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.80	m
Soil Description	Brown and light brown sandy silty clayey GRAVEL (gravel is fmc and sub-rounded to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	04/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	91		
28	80		
20	70		
14	60		
10	52		
6.3	46		
5	44		
3.35	42		
2	40		
1.18	37		
0.6	35		
0.425	34		
0.3	33		
0.212	32		
0.15	31		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	60.49
Sand	10.54
Fines <0.063mm	28.97

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

Remarks

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MSF-5-R3

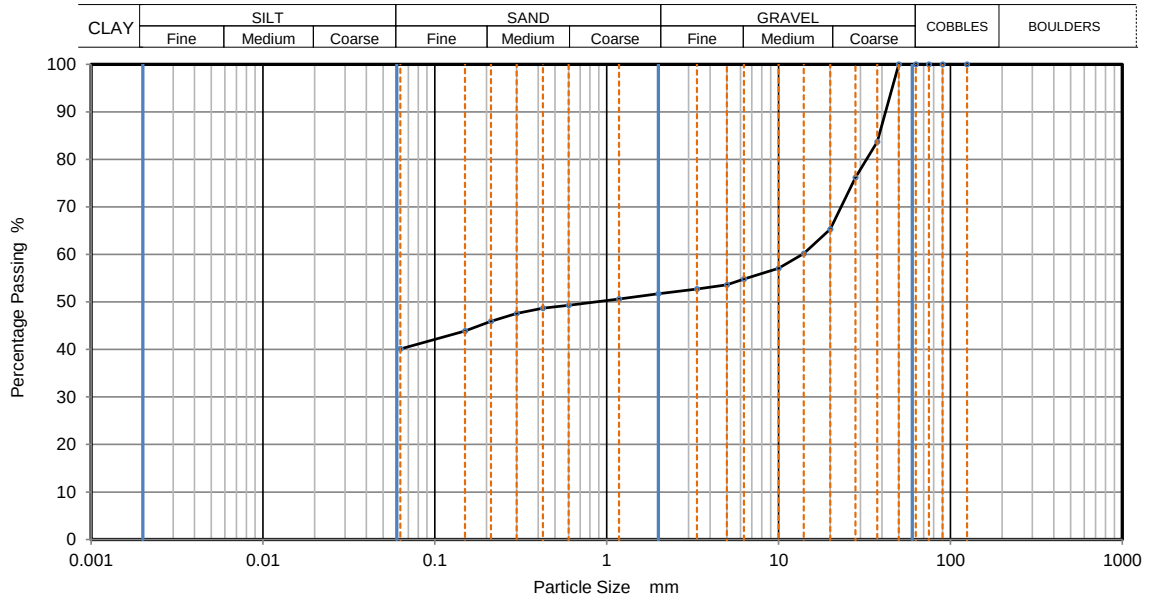


PARTICLE SIZE DISTRIBUTION

Job Ref	33802
Borehole/Pit No.	TP206
Sample No.	-
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	19/07/2023
Schedules received	18/07/2023
Project started	20/07/2023
Date tested	11/08/2023

Site Name	Sompting, West Sussex, BN15 0DQ		
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited
Soil Description	Brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-angular to sub-rounded)		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	84		
28	76		
20	65		
14	60		
10	57		
6.3	55		
5	54		
3.35	53		
2	52		
1.18	51		
0.6	49		
0.425	49		
0.3	48		
0.212	46		
0.15	44		
0.063	40		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	48.26
Sand	11.68
Fines <0.063mm	40.06

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

Remarks
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Checked and Approved

Initials: J.P
Date: 17/08/2023

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

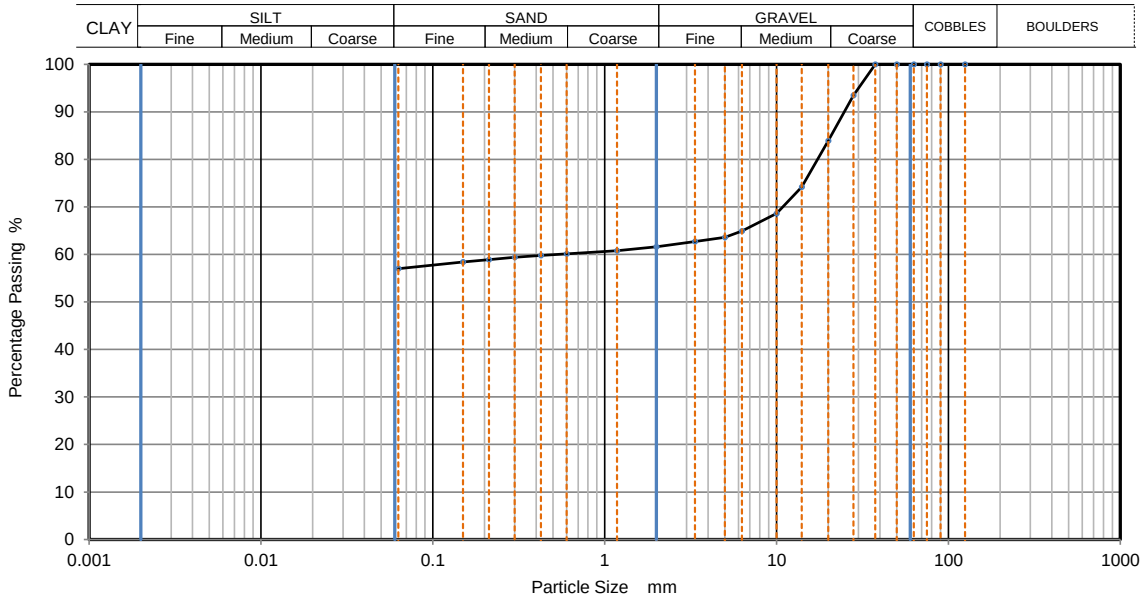
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP207	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.00	m
Soil Description	Brown slightly sandy gravelly silty CLAY with occasional roots and rootlets (gravel is fmc and sub-rounded to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	07/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	84		
14	74		
10	69		
6.3	65		
5	64		
3.35	63		
2	62		
1.18	61		
0.6	60		
0.425	60		
0.3	59		
0.212	59		
0.15	58		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	38.38
Sand	4.63
Fines <0.063mm	56.99

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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Date: 17/08/2023

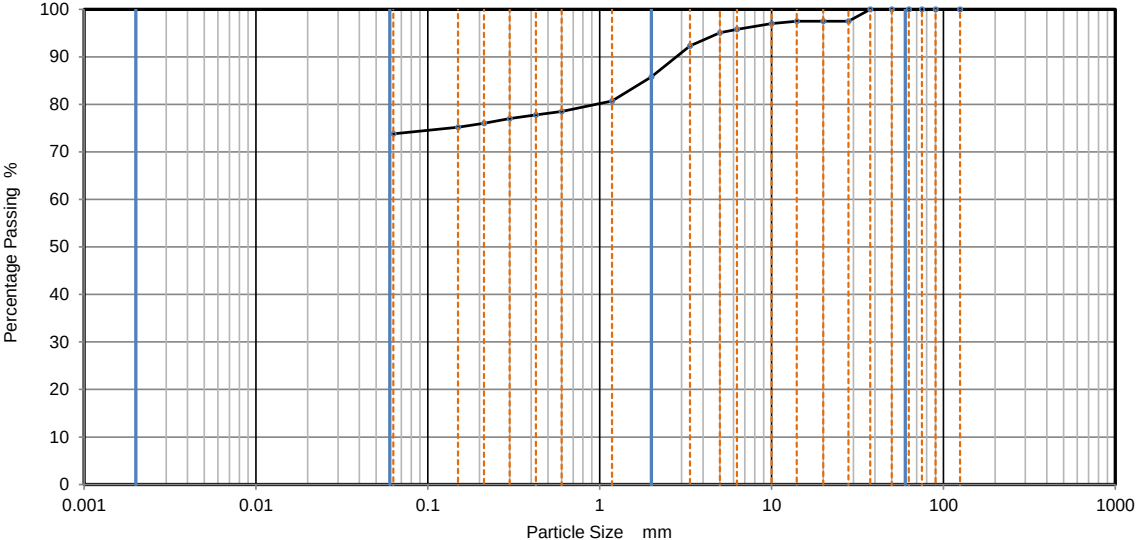
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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	TP209
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00 m
Soil Description	Brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments (gravel is fmc and sub-angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
These results only apply to the items tested				Date tested	10/08/2023

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	98		
20	98		
14	98		
10	97		
6.3	96		
5	95		
3.35	92		
2	86		
1.18	81		
0.6	79		
0.425	78		
0.3	77		
0.212	76		
0.15	75		
0.063	74		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		14.23
Sand		11.92
Fines <0.063mm		73.85

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

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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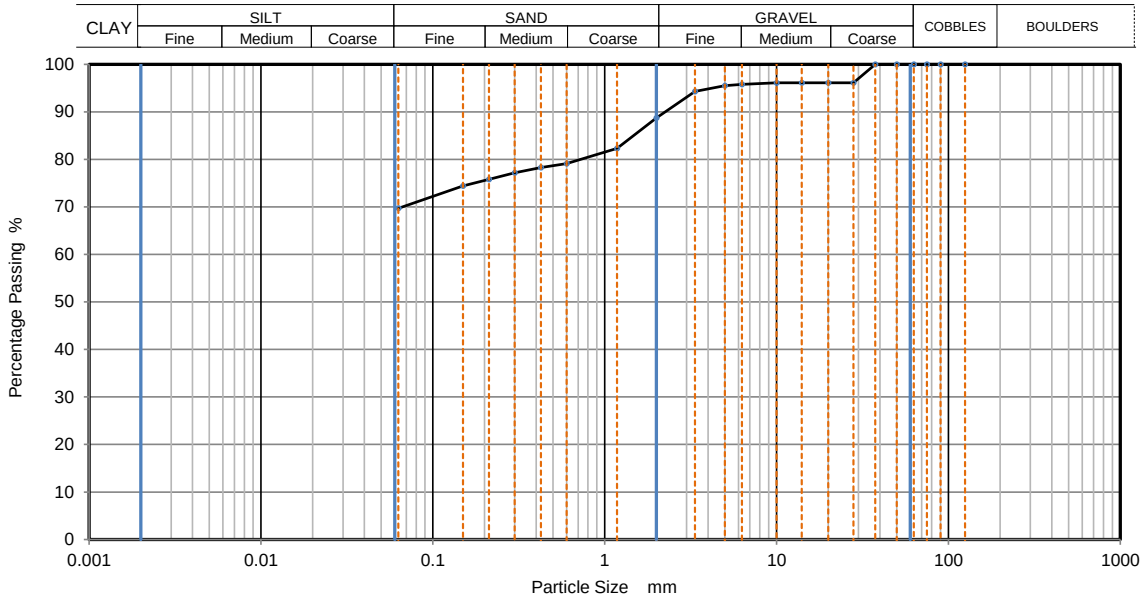
	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288		Checked and Approved Initials: J.P Date: 17/08/2023
	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3
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PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP210	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00	m
Soil Description	Orangish brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments (gravel is fmc and sub-angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	04/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	96		
20	96		
14	96		
10	96		
6.3	96		
5	96		
3.35	94		
2	89		
1.18	82		
0.6	79		
0.425	78		
0.3	77		
0.212	76		
0.15	74		
0.063	70		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	11.30
Sand	18.98
Fines <0.063mm	69.71

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

Remarks
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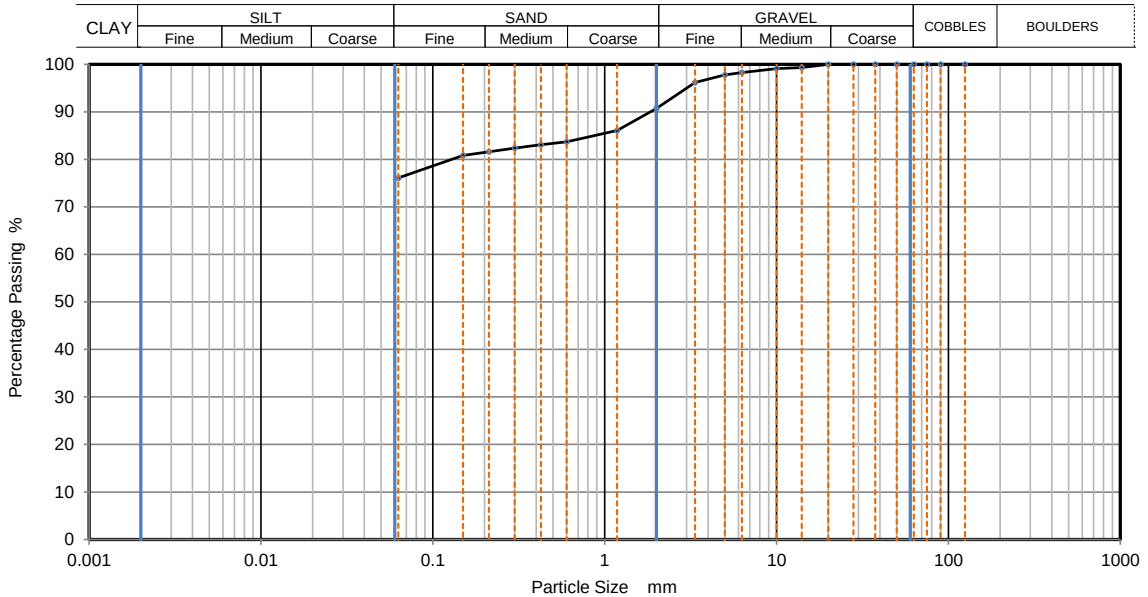
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP211	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00	m
Soil Description	Orangish brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments (gravel is fm and sub-angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	04/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	96		
2	91		
1.18	86		
0.6	84		
0.425	83		
0.3	82		
0.212	82		
0.15	81		
0.063	76		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	9.28
Sand	14.61
Fines <0.063mm	76.11

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

Remarks

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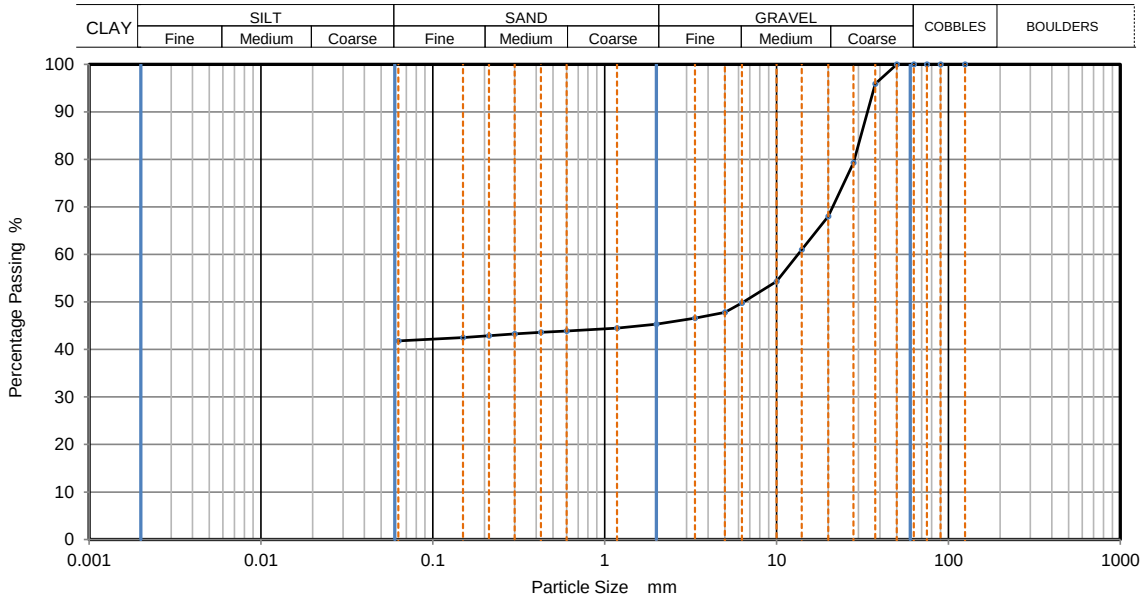
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP212	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.00	m
Soil Description	Brown slightly sandy gravelly silty CLAY with rare roots and rootlets (gravel is fmc and sub-angular to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	15/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	96		
28	79		
20	68		
14	61		
10	54		
6.3	50		
5	48		
3.35	47		
2	45		
1.18	45		
0.6	44		
0.425	44		
0.3	43		
0.212	43		
0.15	43		
0.063	42		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	54.66
Sand	3.58
Fines <0.063mm	41.76

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

Remarks
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Date: 17/08/2023

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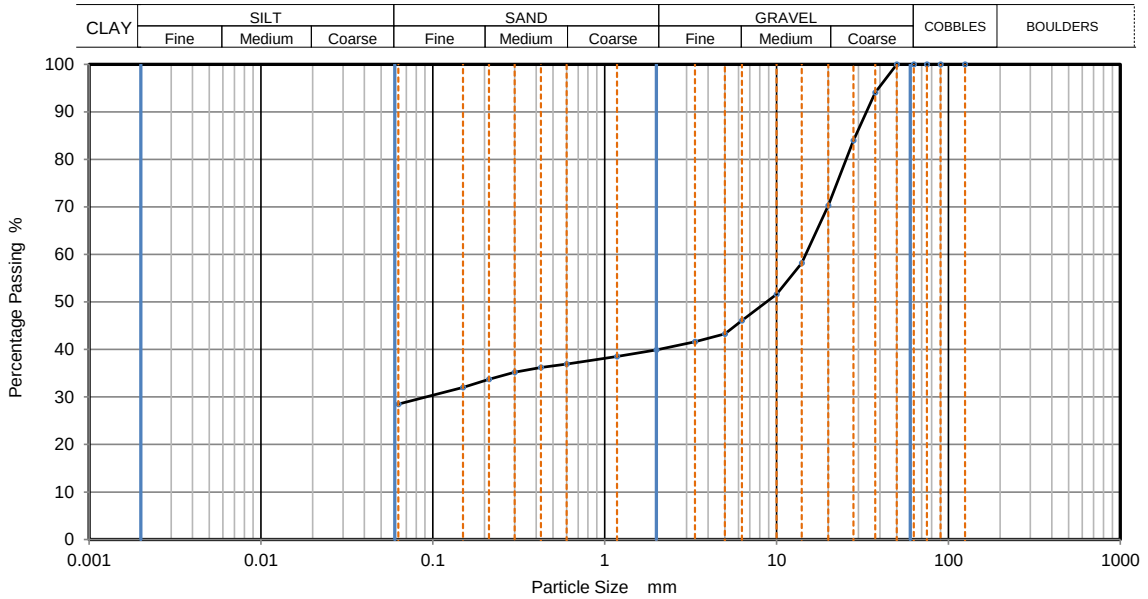
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PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP213	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.00	m
Soil Description	Brown sandy silty clayey GRAVEL with occasional rootlets (gravel is fmc and sub-rounded to sub-angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	15/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	84		
20	70		
14	58		
10	52		
6.3	46		
5	43		
3.35	42		
2	40		
1.18	39		
0.6	37		
0.425	36		
0.3	35		
0.212	34		
0.15	32		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	60.11
Sand	11.34
Fines <0.063mm	28.55

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

Remarks
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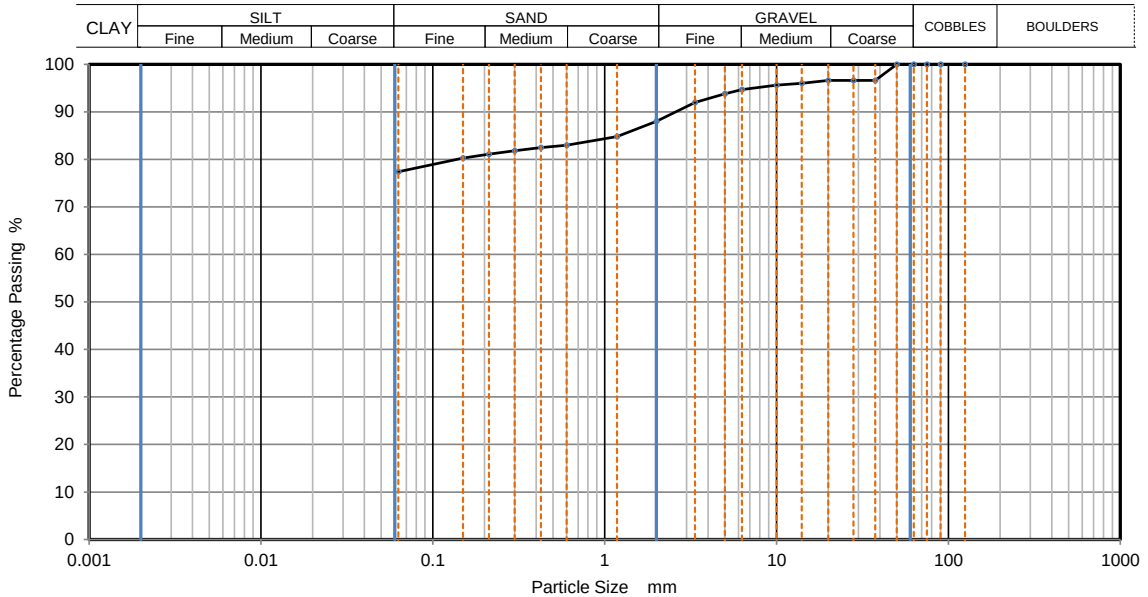
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PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP214	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00	m
Soil Description	Orangish brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments (gravel is fmc and sub-angular to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	07/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	97		
28	97		
20	97		
14	96		
10	96		
6.3	95		
5	94		
3.35	92		
2	88		
1.18	85		
0.6	83		
0.425	83		
0.3	82		
0.212	81		
0.15	80		
0.063	77		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	12.00
Sand	10.56
Fines <0.063mm	77.43

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

Remarks
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Date: 17/08/2023

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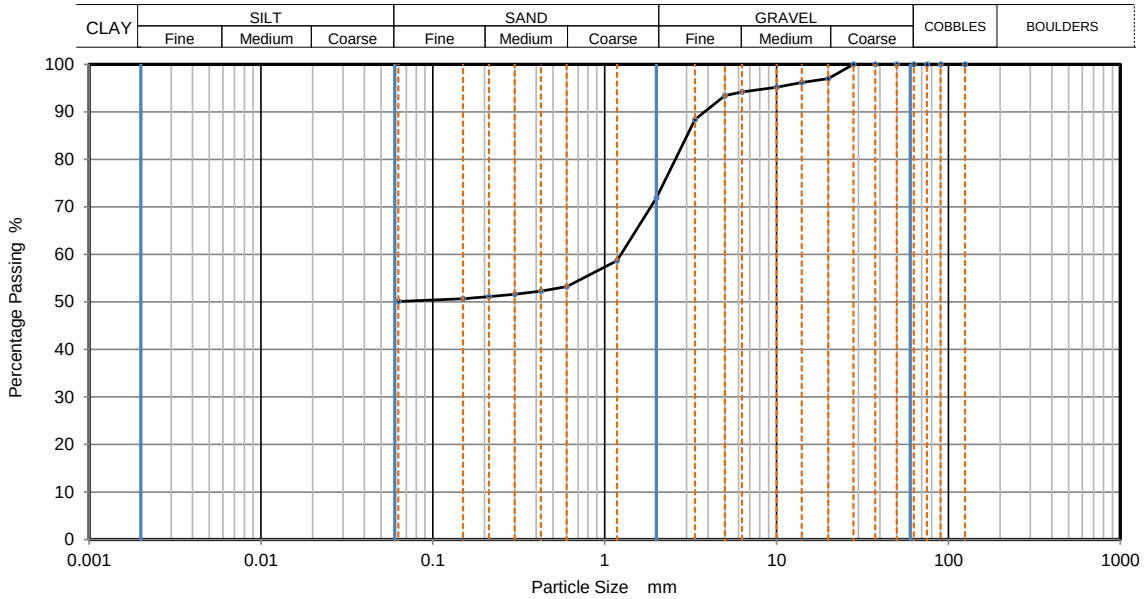
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PARTICLE SIZE DISTRIBUTION

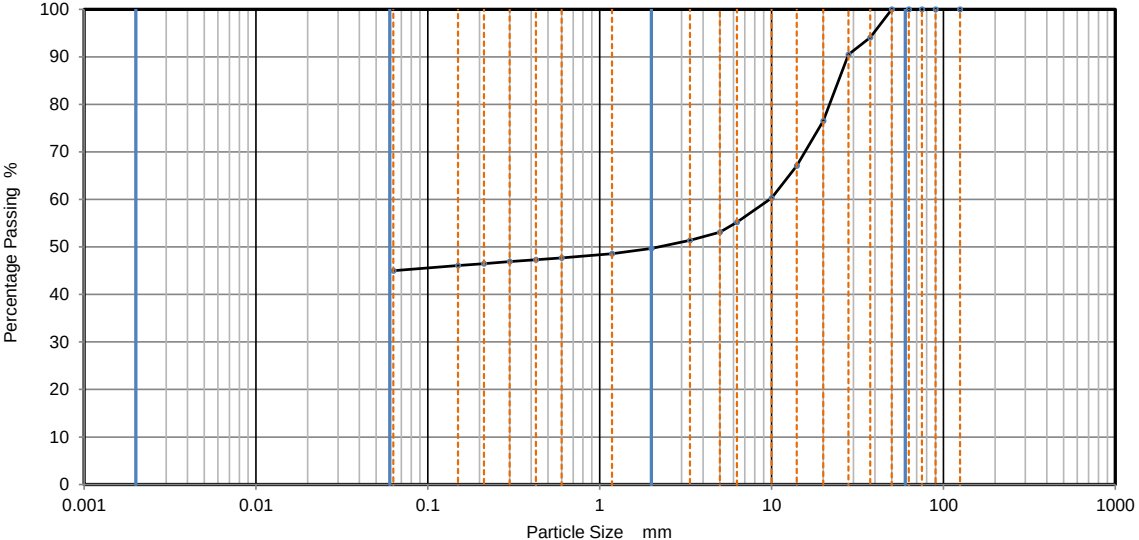
	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	TP215	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50	m
Soil Description	Brown and light brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-angular to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	15/08/2023	

These results only apply to the items tested



	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	TP216
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.40 m
Soil Description	Dark brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-rounded to angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
These results only apply to the items tested				Date tested	10/08/2023

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	91		
20	77		
14	67		
10	60		
6.3	55		
5	53		
3.35	51		
2	50		
1.18	49		
0.6	48		
0.425	47		
0.3	47		
0.212	47		
0.15	46		
0.063	45		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		50.26
Sand		4.77
Fines <0.063mm		44.97

Grading Analysis		
D100	mm	
D60	mm	9.75
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks
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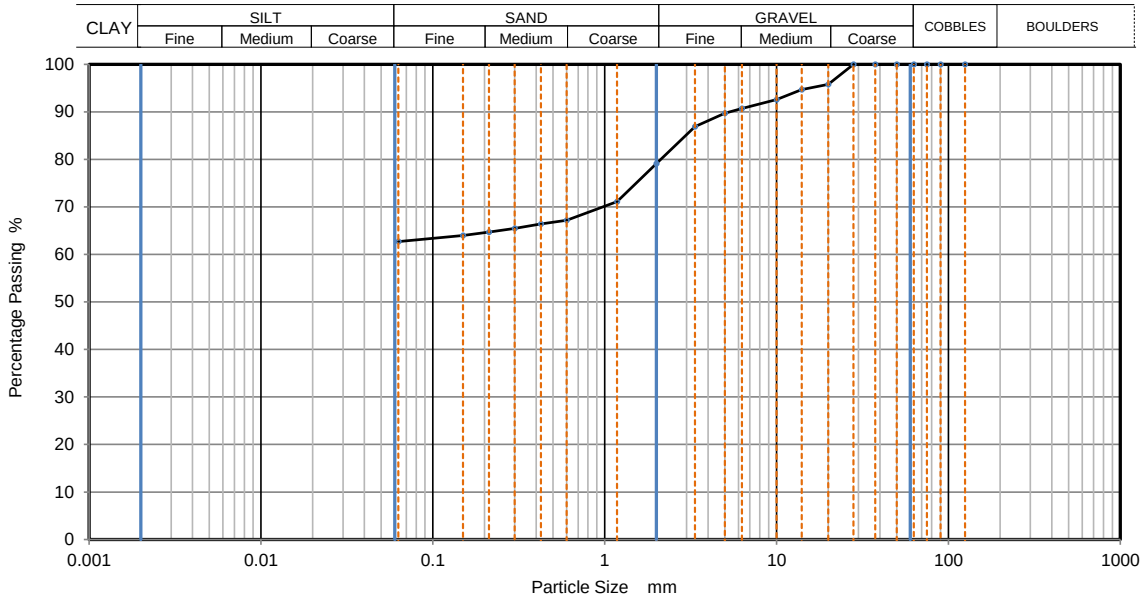
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PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	WS201	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50	m
Soil Description	Light brown slightly sandy slightly gravelly silty CLAY with occasional fine chalk fragments are rare roots (gravel is fmc and sub-angular to angular)			Depth Base	2.00	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	04/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	95		
10	93		
6.3	91		
5	90		
3.35	87		
2	79		
1.18	71		
0.6	67		
0.425	66		
0.3	66		
0.212	65		
0.15	64		
0.063	63		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	20.85
Sand	16.47
Fines <0.063mm	62.68

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

Remarks
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Initials: J.P

Date: 17/08/2023

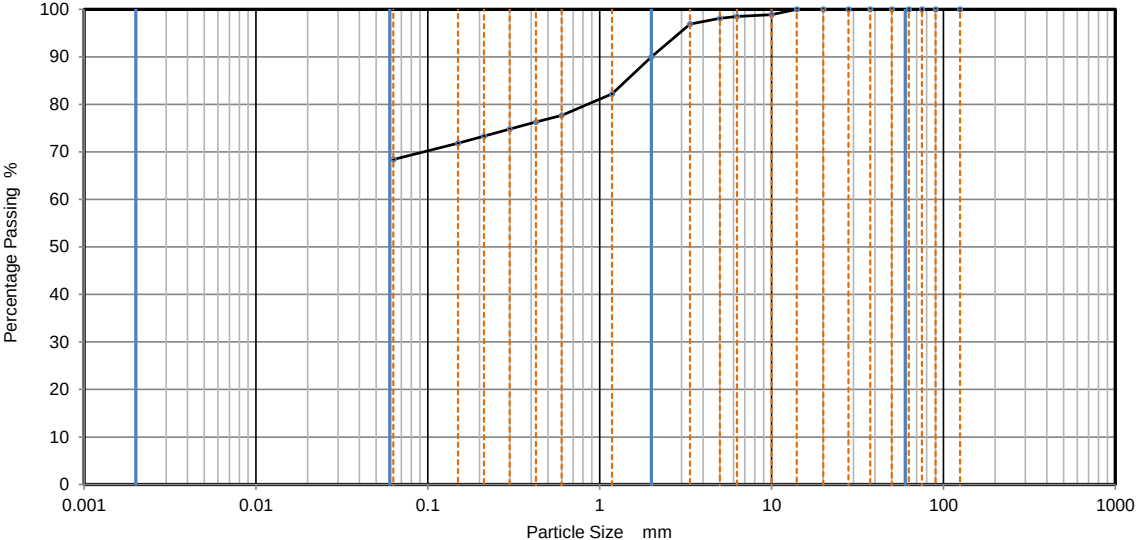
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MSF-5-R3

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	WS202
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00 m
Soil Description	Light brown slightly gravelly slightly sandy silty CLAY with numerous fine chalk fragments (gravel is fm and sub-angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
These results only apply to the items tested				Date tested	04/08/2023

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	99		
5	98		
3.35	97		
2	90		
1.18	82		
0.6	78		
0.425	76		
0.3	75		
0.212	73		
0.15	72		
0.063	68		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		10.05
Sand		21.53
Fines <0.063mm		68.42

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

Remarks
Preparation and testing in accordance with BS1377 unless noted below

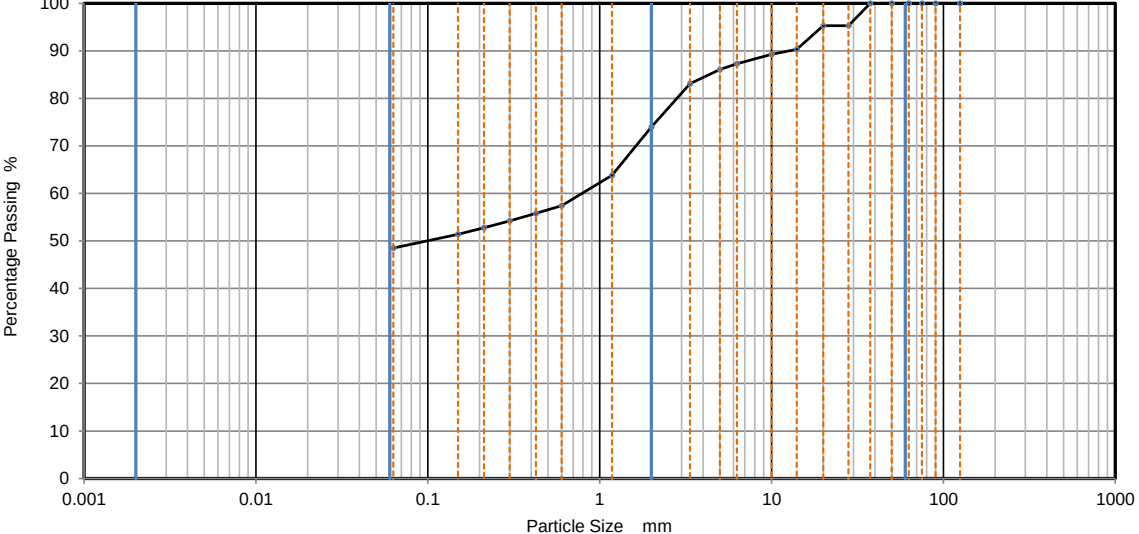
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	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3
	2519		

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	WS203
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00 m
Soil Description	Light brown slightly sandy slightly gravelly silty CLAY with numerous fine chalk fragments (gravel is fmc and sub-angular to angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
				Date tested	04/08/2023

These results only apply to the items tested

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	95		
14	90		
10	89		
6.3	87		
5	86		
3.35	83		
2	74		
1.18	64		
0.6	57		
0.425	56		
0.3	54		
0.212	53		
0.15	51		
0.063	49		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		26.04
Sand		25.43
Fines <0.063mm		48.53

Grading Analysis		
D100	mm	
D60	mm	0.788
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks
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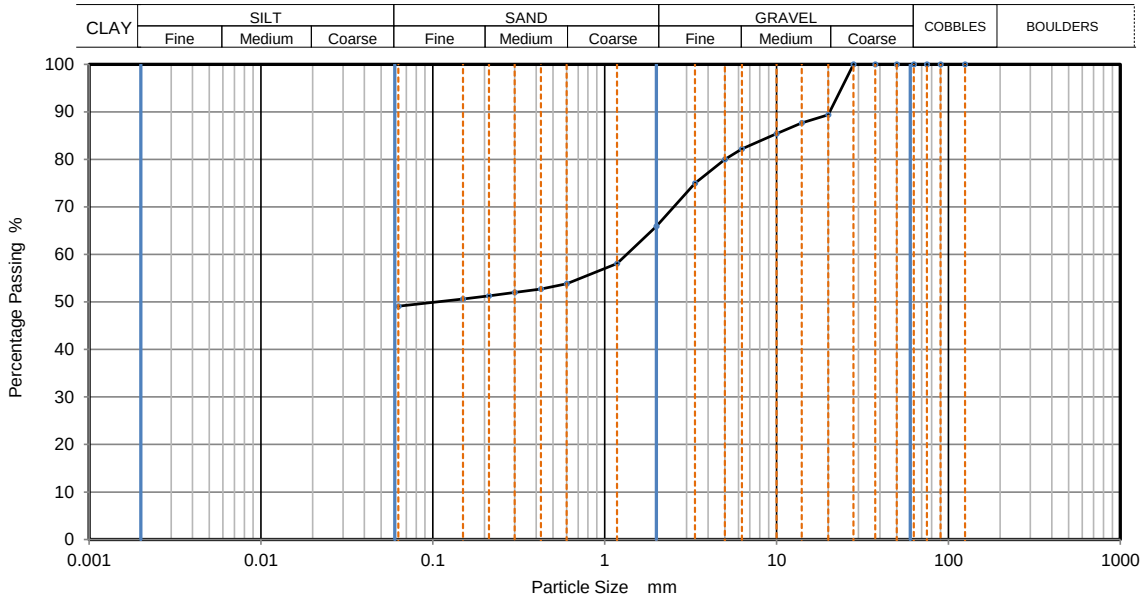
	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288		Checked and Approved Initials: J.P Date: 17/08/2023
	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	WS204	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50	m
Soil Description	Brown slightly sandy slightly gravelly calcareous silty CLAY with chalk fragments (gravel is fmc and sub-angular to sub-rounded)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	11/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	88		
10	85		
6.3	82		
5	80		
3.35	75		
2	66		
1.18	58		
0.6	54		
0.425	53		
0.3	52		
0.212	51		
0.15	51		
0.063	49		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	34.09
Sand	16.80
Fines <0.063mm	49.11

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

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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K4 Soils Laboratory

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Checked and Approved

Initials: J.P

Date: 17/08/2023

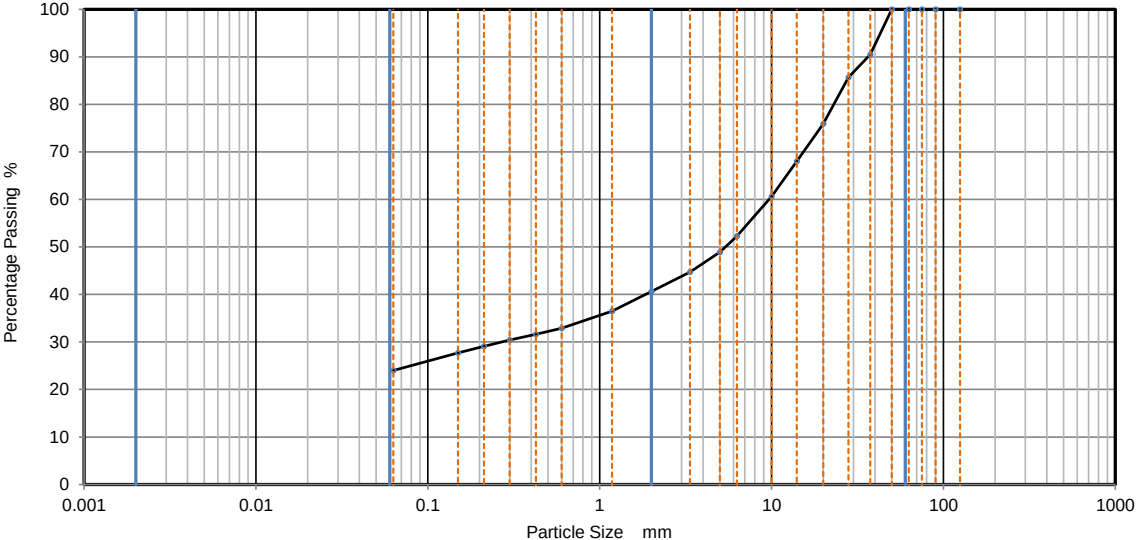
2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	WS205
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.50 m
Soil Description	Light brown clayey silty sandy GRAVEL (gravel is fmc and sub-angular to angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
These results only apply to the items tested				Date tested	04/08/2023

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	91		
28	86		
20	76		
14	68		
10	61		
6.3	52		
5	49		
3.35	45		
2	41		
1.18	37		
0.6	33		
0.425	32		
0.3	30		
0.212	29		
0.15	28		
0.063	24		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		59.38
Sand		16.61
Fines <0.063mm		24.01

Grading Analysis		
D100	mm	
D60	mm	9.66
D30	mm	0.272
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks
Preparation and testing in accordance with BS1377 unless noted below

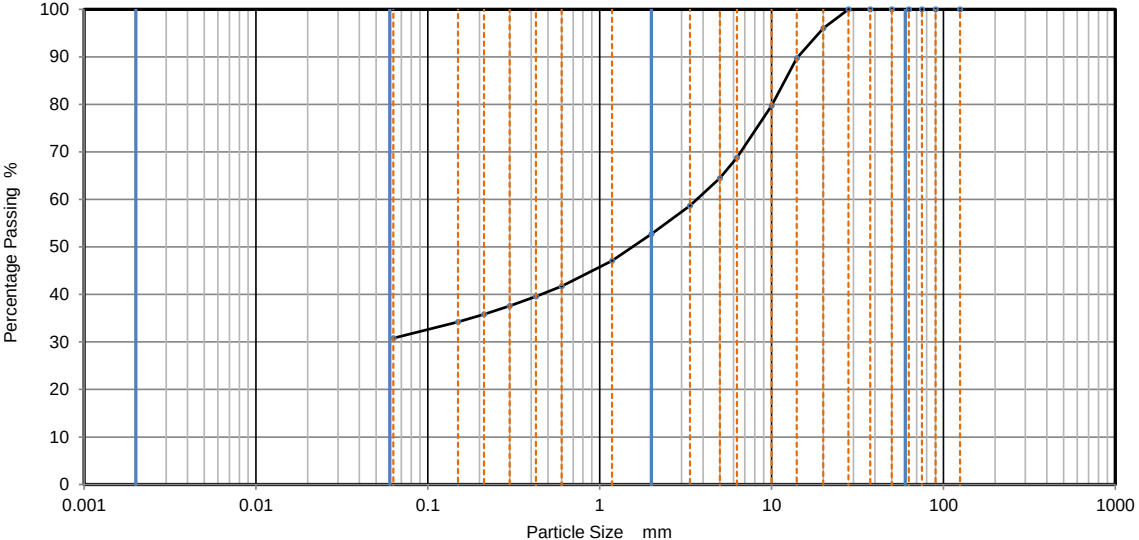
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	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3
	2519		

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802
				Borehole/Pit No.	WS206
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.00 m
Soil Description	Light grey clayey silty very sandy GRAVEL (gravel is fmc and sub-angular to angular)			Depth Base	- m
				Sample Type	D
				Samples received	19/07/2023
				Schedules received	18/07/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023
				Date tested	04/08/2023

These results only apply to the items tested

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	90		
10	80		
6.3	69		
5	65		
3.35	59		
2	53		
1.18	47		
0.6	42		
0.425	40		
0.3	38		
0.212	36		
0.15	34		
0.063	31		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		47.29
Sand		21.90
Fines <0.063mm		30.80

Grading Analysis		
D100	mm	
D60	mm	3.67
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks
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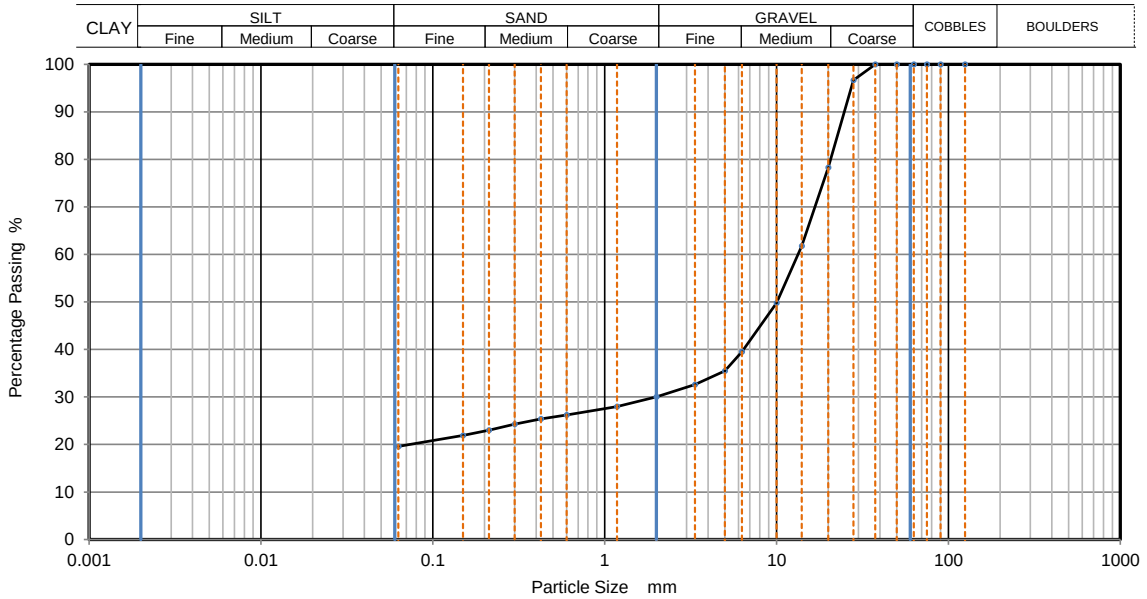
	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288		Checked and Approved Initials: J.P Date: 17/08/2023
	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3
	2519		



PARTICLE SIZE DISTRIBUTION

Job Ref		33802	
		Borehole/Pit No.	
Site Name		Sompting, West Sussex, BN15 0DQ	
Project No.		ICE0175	
Client		IBEX Consulting Engineers Limited	
Soil Description		Depth Top	
		1.50 m	
		Depth Base	
		- m	
		Sample Type	
		D	
		Samples received	
		19/07/2023	
		Schedules received	
		18/07/2023	
Test Method		BS1377:Part 2: 1990, clause 9.0	
Project started		20/07/2023	
Date tested		07/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	78		
14	62		
10	50		
6.3	40		
5	36		
3.35	33		
2	30		
1.18	28		
0.6	26		
0.425	25		
0.3	24		
0.212	23		
0.15	22		
0.063	20		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	70.02
Sand	10.39
Fines <0.063mm	19.59

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

Remarks
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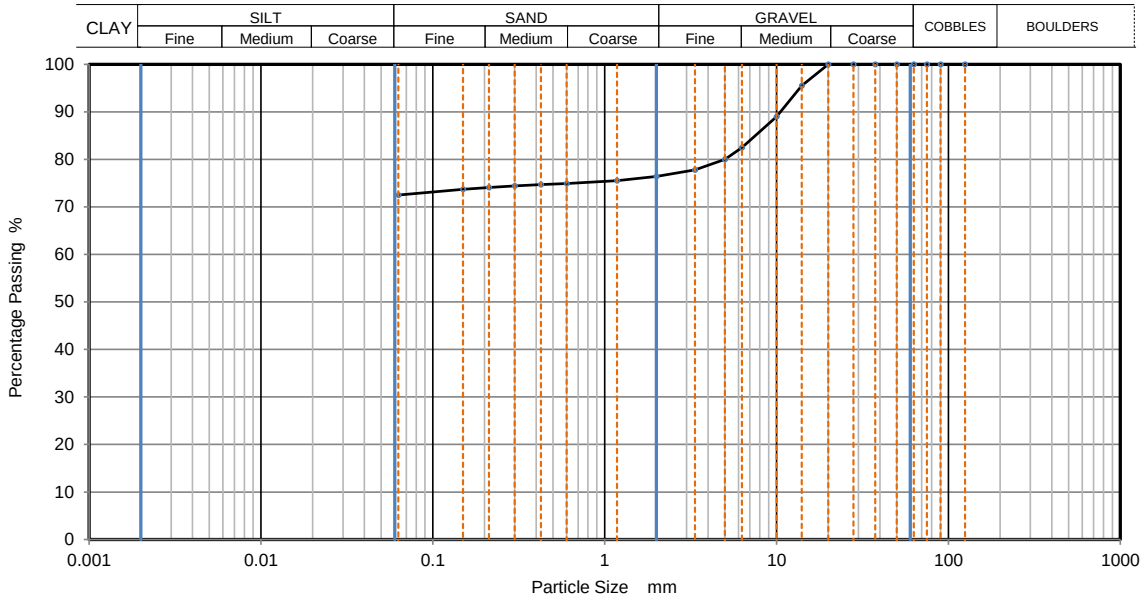
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	WS209	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	1.00	m
Soil Description	Brown slightly sandy slightly gravelly silty CLAY with rare rootlets (gravel is fm and sub-angular to angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	04/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	89		
6.3	83		
5	80		
3.35	78		
2	76		
1.18	76		
0.6	75		
0.425	75		
0.3	74		
0.212	74		
0.15	74		
0.063	73		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	23.62
Sand	3.88
Fines <0.063mm	72.50

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

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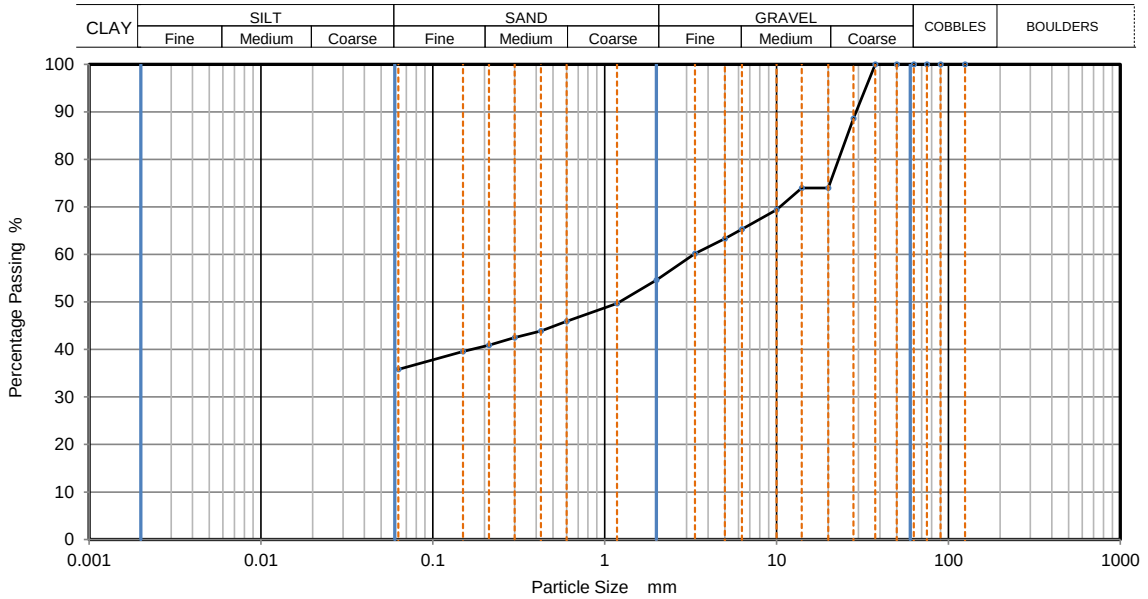
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33802	
				Borehole/Pit No.	WS210	
Site Name	Sompting, West Sussex, BN15 0DQ			Sample No.	-	
Project No.	ICE0175	Client	IBEX Consulting Engineers Limited	Depth Top	2.50	m
Soil Description	Light brown slightly sandy gravelly calcareous silty CLAY with occasional fm chalk fragments (gravel is fmc and sub-angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	19/07/2023	
				Schedules received	18/07/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	20/07/2023	
These results only apply to the items tested				Date tested	11/08/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	89		
20	74		
14	74		
10	69		
6.3	65		
5	63		
3.35	60		
2	55		
1.18	50		
0.6	46		
0.425	44		
0.3	43		
0.212	41		
0.15	40		
0.063	36		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	45.42
Sand	18.80
Fines <0.063mm	35.79

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

Remarks
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Initials: J.P

Date: 17/08/2023

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

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t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 23-45626

Project / Site name: Sompting

Samples received on: 18/07/2023

Your job number: ICE0175

**Samples instructed on/
Analysis started on:** 18/07/2023

Your order number:

Analysis completed by: 26/07/2023

Report Issue Number: 1

Report issued on: 26/07/2023

Samples Analysed: 23 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

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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: 23-45626
 Project / Site name: Sompting

Lab Sample Number				2751711	2751712	2751713	2751714	2751715
Sample Reference				TP211	WS210	TP205	WS204	TP203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80-1.00	1.30-1.50	0.80-1.00	1.30-1.50	1.30-1.50
Date Sampled				12/07/2023	12/07/2023	12/07/2023	12/07/2023	13/07/2023
Time Taken				1000	1000	1000	1000	1000
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	14	8	6.5	11
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.6	7.4	8.2	8.1
Total Sulphate as SO4	%	0.005	MCERTS	0.024	0.025	0.029	0.044	0.037
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	52	170	14	6.2	8.3
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.026	0.083	0.0072	0.0031	0.0042
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	26	83.4	7.2	3.1	4.2
Total Sulphur	%	0.005	MCERTS	0.017	0.014	0.02	0.019	0.018

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

Analytical Report Number: 23-45626
 Project / Site name: Sompting

Lab Sample Number				2751716	2751717	2751718	2751719	2751720
Sample Reference				WS202	TP207	WS206	TP206	TP208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-2.00	0.80-1.00	1.30-1.50	0.80-1.00	1.30-1.50
Date Sampled				12/07/2023	13/07/2023	13/07/2023	13/07/2023	13/07/2023
Time Taken				1000	1000	1000	1000	1000
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Stone Content				%	0.1	NONE	< 0.1	< 0.1
Moisture Content				%	0.01	NONE	9	11
Total mass of sample received				kg	0.001	NONE	0.4	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	7.5	7.9	7.3	8.2
Total Sulphate as SO4	%	0.005	MCERTS	0.047	0.016	0.03	0.034	0.065
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	4.9	8.1	4.7	9.7	4.5
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0025	0.004	0.0024	0.0048	0.0023
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	2.5	4	2.4	4.8	2.3
Total Sulphur	%	0.005	MCERTS	0.019	0.019	0.013	0.017	0.018

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

Analytical Report Number: 23-45626
 Project / Site name: Sompting

Lab Sample Number				2751721	2751722	2751723	2751724	2751725
Sample Reference				TP107	WS107	TP110	TP109	TP209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80-1.00	1.30-1.50	0.80-1.00	1.30-1.50	1.30-1.50
Date Sampled				17/07/2023	13/07/2023	17/07/2023	17/07/2023	14/07/2023
Time Taken				1000	1000	1000	1000	1000
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Stone Content				%	0.1	NONE	< 0.1	< 0.1
Moisture Content				%	0.01	NONE	13	15
Total mass of sample received				kg	0.001	NONE	0.4	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7	8.1	8.1	8.1	8.4
Total Sulphate as SO4	%	0.005	MCERTS	0.009	0.009	0.015	0.012	0.03
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	6	9.8	4.4	6.2	5.3
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.003	0.0049	0.0022	0.0031	0.0026
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	3	4.9	2.2	3.1	2.6
Total Sulphur	%	0.005	MCERTS	0.008	< 0.005	0.007	0.007	0.014

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



Analytical Report Number : 23-45626
Project / Site name: Sompting

* 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 *
2751711	TP211	None Supplied	0.80-1.00	Brown clay and sand with gravel and vegetation.
2751712	WS210	None Supplied	1.30-1.50	Brown clay and sand with gravel.
2751713	TP205	None Supplied	0.80-1.00	Brown sand with gravel and vegetation.
2751714	WS204	None Supplied	1.30-1.50	Brown clay and sand with gravel.
2751715	TP203	None Supplied	1.30-1.50	Brown sandy clay with gravel.
2751716	WS202	None Supplied	1.80-2.00	Brown clay and sand.
2751717	TP207	None Supplied	0.80-1.00	Brown sand with gravel.
2751718	WS206	None Supplied	1.30-1.50	Brown sand with gravel and stones.
2751719	TP206	None Supplied	0.80-1.00	Brown sand with gravel and vegetation.
2751720	TP208	None Supplied	1.30-1.50	Brown sand with gravel and vegetation.
2751721	TP107	None Supplied	0.80-1.00	Brown sandy clay with gravel and vegetation.
2751722	WS107	None Supplied	1.30-1.50	Brown clay and sand.
2751723	TP110	None Supplied	0.80-1.00	Brown sand with gravel and vegetation.
2751724	TP109	None Supplied	1.30-1.50	Brown clay and sand with gravel and vegetation.
2751725	TP209	None Supplied	1.30-1.50	Brown sandy clay with vegetation.
2751726	TP103	None Supplied	1.30-1.50	Brown clay and sand with gravel and vegetation.
2751727	TP106	None Supplied	0.80-1.00	Brown clay and sand with gravel and vegetation.
2751728	TP105	None Supplied	1.30-1.50	Brown clay and sand with gravel and vegetation.
2751729	TP108	None Supplied	1.30-1.50	Brown clay and sand with chalk and vegetation.
2751730	TP116	None Supplied	1.30-1.50	Brown clay and sand with gravel and vegetation.
2751731	TP114	None Supplied	1.30-1.50	Brown clay and sand with gravel.
2751732	TP115	None Supplied	1.80-2.00	Brown clay and sand with gravel.
2751733	TP113	None Supplied	1.80-2.00	Brown clay and sand with gravel.

Analytical Report Number : 23-45626
Project / Site name: Sompting

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
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
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	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.