



2183

Final Report

Report No.:	21-26013-1		
Initial Date of Issue:	11-Aug-2021		
Client	Huperade Ltd		
Client Address:	Bridge House Farm Brooks Drive Timperley Cheshire WA15 7DQ		
Contact(s):	Lesley Cox		
Project	Soil Testing		
Quotation No.:	Q20-20319	Date Received:	28-Jul-2021
Order No.:		Date Instructed:	28-Jul-2021
No. of Samples:	1		
Turnaround (Wkdays):	10	Results Due:	10-Aug-2021
Date Approved:	11-Aug-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: Soil Testing

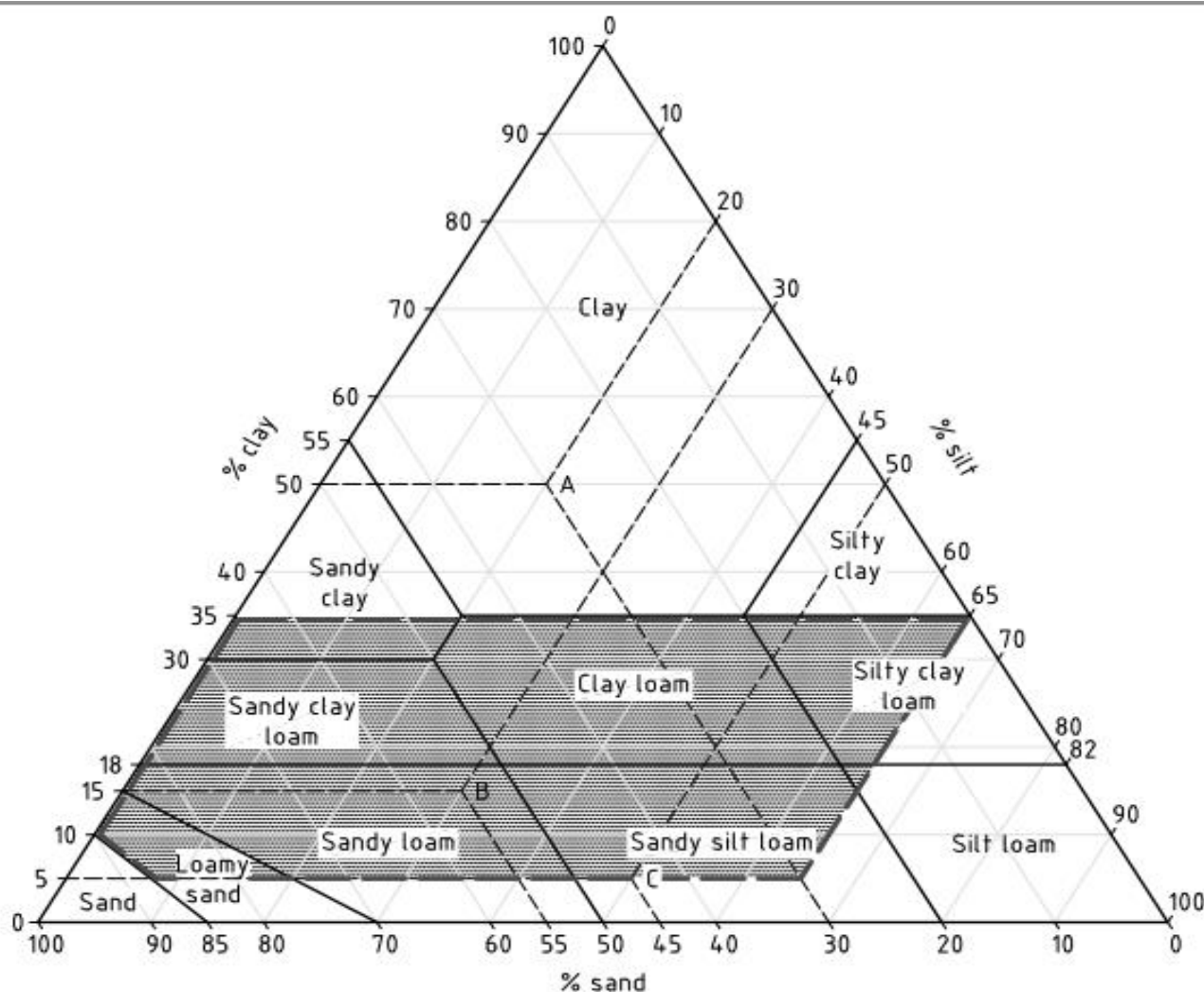
Client: Huperade Ltd	Chemtest Job No.:		21-26013		
Quotation No.: Q20-20319	Chemtest Sample ID.:		1249652		
	Client Sample ID.:		1		
	Sample Type:		SOIL		
	Date Sampled:		26-Jul-2021		
Determinand	Accred.	SOP	Units	LOD	
Moisture	N	2030	%	0.020	11

Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 21-26013
 Chemtest Sample ID.: 1249652
 Client Sample Ref.:
 Sample Location:
 Client Sample ID.: 1
 Top Depth (m):
 Bottom Depth (m):
 Date Sampled: 26-Jul-2021
 Time Sampled:

Parameter	Units	Multipurpose Range	Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture					Acid	Low F	Calc.
Clay content	%		3.2				
Silt content	%		16				
Sand content	%		81				
Soil texture class		See Attached Chart	Loamy Sand	NO			
Mass Loss on Ignition							
Clay 5-20%		3.0-20	5.9	NO	NO	YES	NO
Clay 20-35%		5.0-20					
Stone Content	% m/m						
>2mm		0-30	12	YES			
>20mm		0-10	< 0.020	YES			
>50mm		0	< 0.020	YES			
Soil pH value		5.5-8.5	8.2	YES	NO	YES	YES
Carbonate (Calcareous only)	%		< 0.10				NO
Electrical Conductivity	µS/cm	If >3300 do ESP	1900	YES			
Available Nutrient Content							
Nitrogen %		>0.15	0.69	YES	YES		YES
Extractable phosphorus	mg/l	16-140	78	YES	YES	NO	YES
Extractable potassium	mg/l	121-1500	98	NO	NO		NO
Extractable magnesium	mg/l	51-600	110	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1	5.0/1	YES	YES	YES	YES
Exchangeable sodium	%	<15	11				
Available Calcium	mg/l		650				
Available Sodium	mg/l		490				
Phytotoxic Contaminants (by soil pH)		< 6.0	6.0-7.0	> 7.0			
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	130	YES	
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	51	YES	
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	13	YES	
Visible Contaminants	% mm						
>2mm		<0.5	0.000	YES			
..... of which plastics		<0.25	0.000	YES			
..... man-made sharps		zero in 1kg	0.000	YES			

Texture Classification Chart**Key**

Area within which the texture of topsoil is required to fall

NOTE Examples of textural classification are as follows.

- Soil A with 30% sand, 20% silt and 50% clay is in the "clay" textural class.
- Soil B with 55% sand, 30% silt and 15% clay is in the "sandy loam" textural class.
- Soil C with 45% sand, 50% silt and 5% clay is in the "sandy silt loam" textural class.

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Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2115	Total Nitrogen in Soils	Nitrogen	Determination by elemental analyser
2260	Carbonate	Carbonate	Titration
2400	Cations	Cations	ICP-MS
2420	Phosphate	Phosphate	Spectrophotometry - Discrete analyser
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2620	LOI 440	LOI 440 Trommel Fines	Determination of the proportion by mass that is lost from a soil by ignition at 440°C.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com