MURRAY RIX
CONSULTANCY, SITE INVESTIGATION
CONSTRUCTION MATERIALS TESTING

TEST REPORT

Client Earth Environmental & Geotechnical Ltd

Address Houldsworth Mill Business & Arts Centre
Houldsworth Mill
Reddish
Stockport
SK5 6DA

Contract A5595 -
Burnage Lane

Job Number MRN 24055/9
Date of Issue 05 February 2024

Approved Signatories

S J Hutchings, O P Davies

Notes

1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.

2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.

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

4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.

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

6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

UKAS TESTING 1580

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

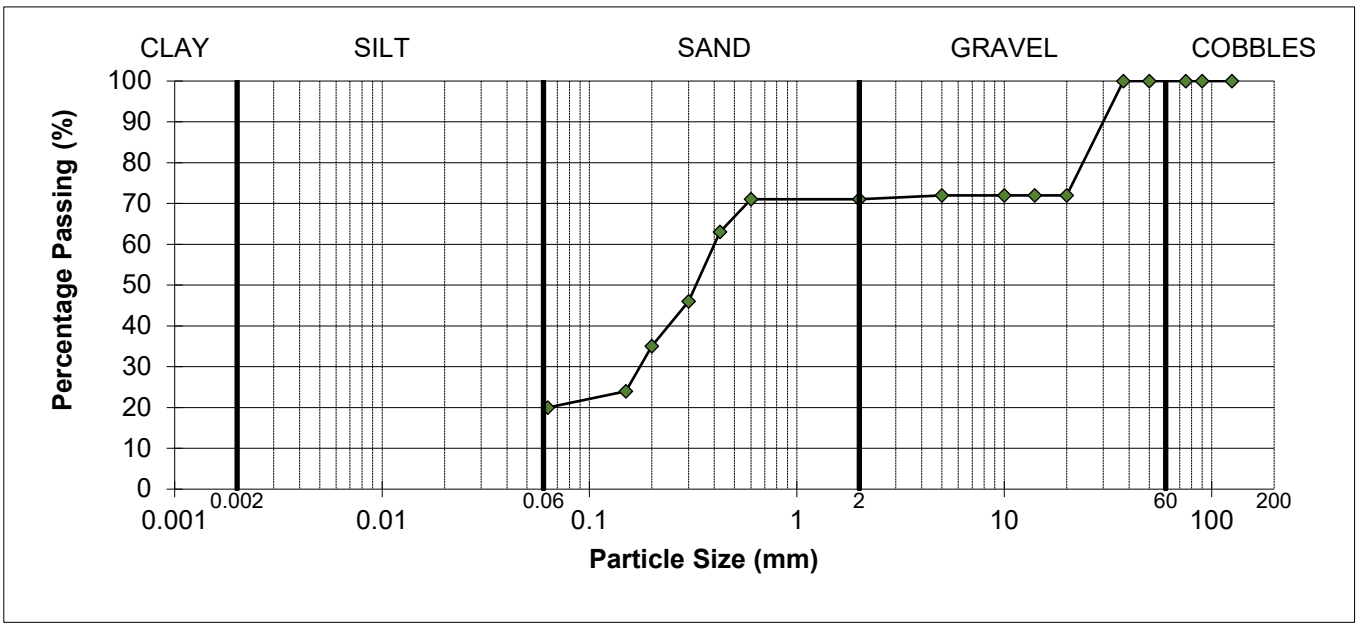
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A5595 - Burnage Lane
JOB NUMBER	MRN 24055/9

SAMPLE LABEL	WS05 2.00-2.60m	DATE SAMPLED	15-Jan-24
LAB SAMPLE No	406706	DATE RECEIVED	16-Jan-24
DATE TESTED	17-Jan-24	SAMPLED BY	Client

MATERIAL	Red silty gravelly SAND
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	72	
90	100		2	71	
75	100		0.6	71	
50	100		0.425	63	
37.5	100		0.3	46	
20	72		0.2	35	
14	72		0.15	24	
10	72		0.063	20	



REMARKS

SIGNED

NAME O.P. Davies BA (Hons) (Laboratory Manager) DATE 05-Feb-24

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LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD
PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5
WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

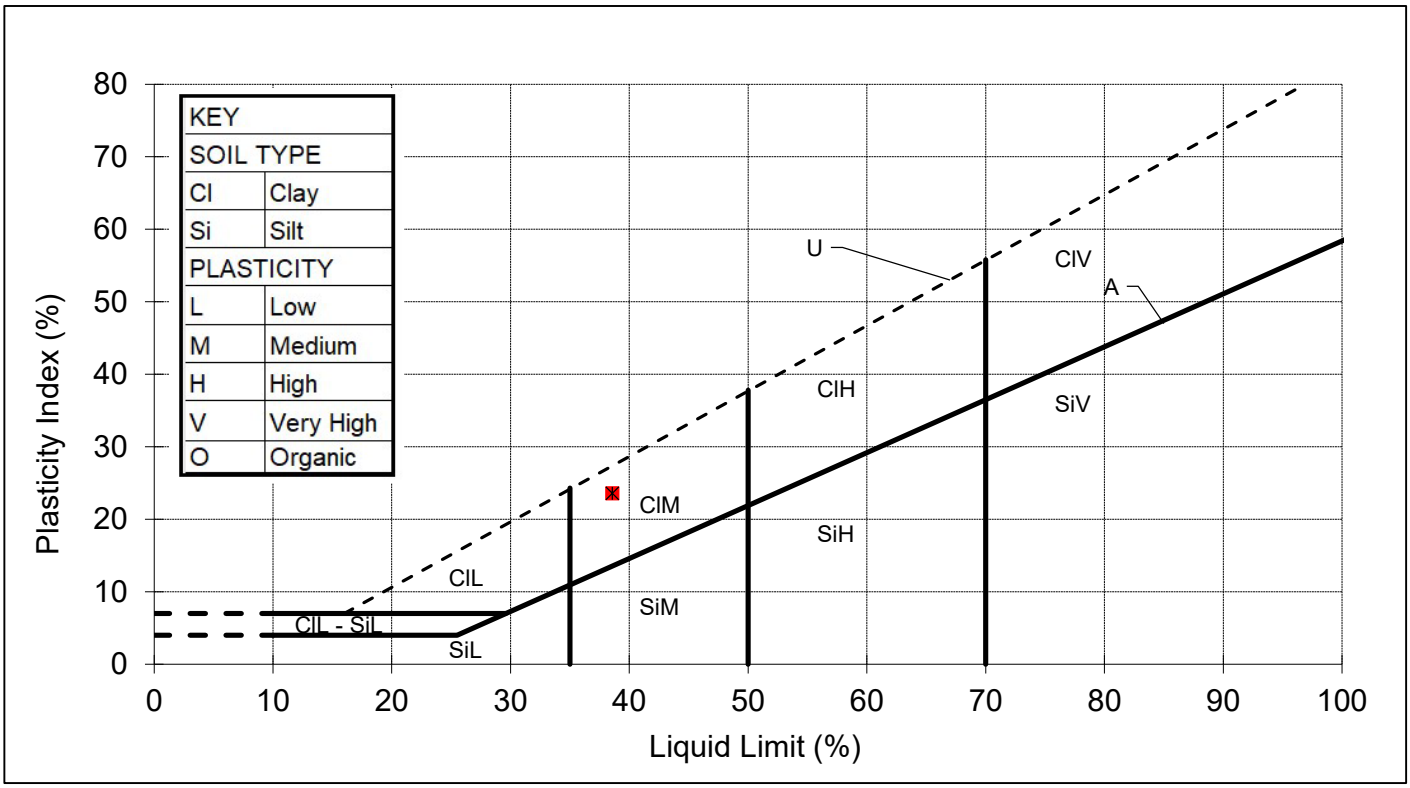
CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A5595 - Burnage Lane
JOB NUMBER	MRN 24055/9

SAMPLE LABEL	WS04 1.00m	DATE SAMPLED	15-Jan-24
SAMPLE No.	406701	DATE RECEIVED	16-Jan-24
DATE TESTED	17-Jan-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.1	38.6	0.999	
Determination 2 (avg)	20.1	38.6		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
21.6	39	15	24	81



REMARKS

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(Laboratory Manager)

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LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD
PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5
WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

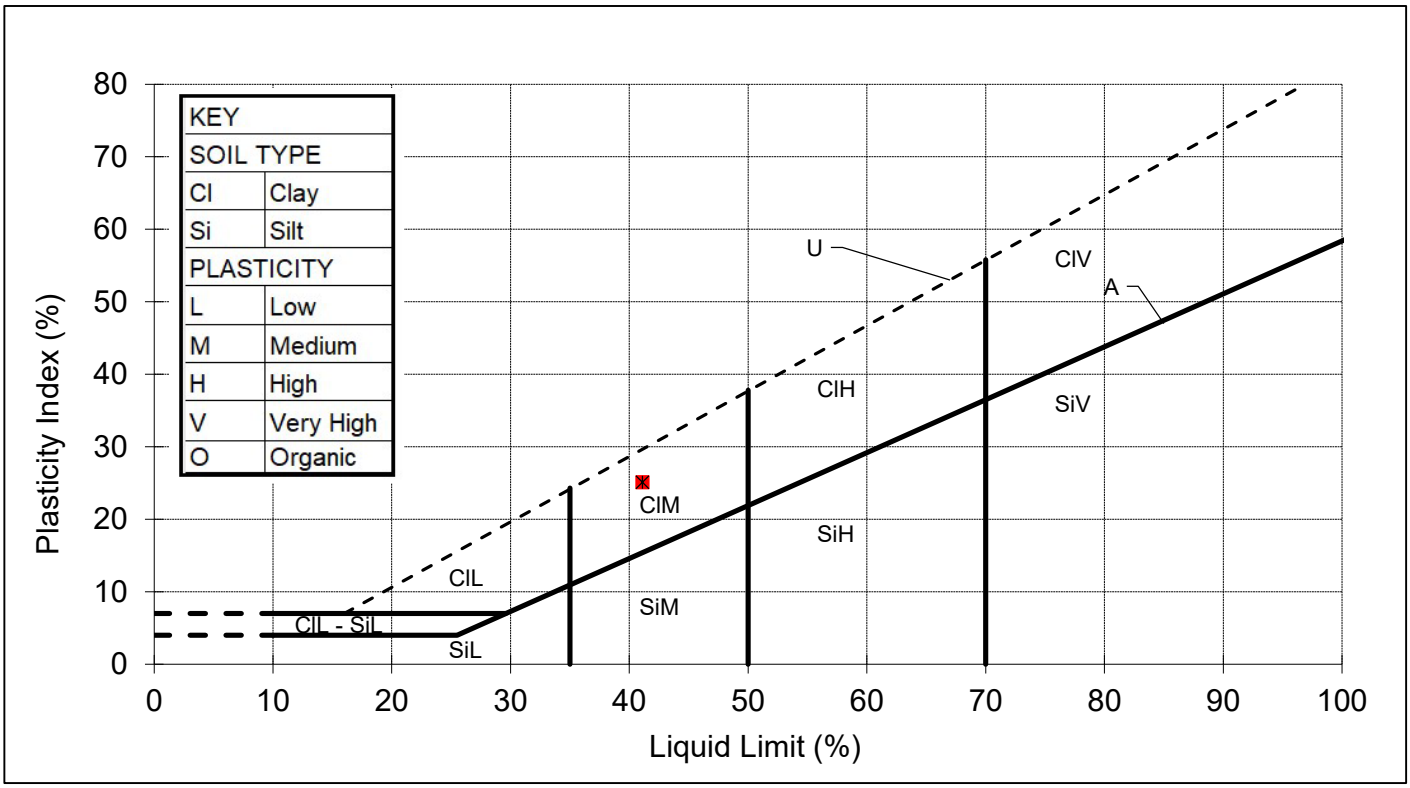
CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A5595 - Burnage Lane
JOB NUMBER	MRN 24055/9

SAMPLE LABEL	WS05 1.00m	DATE SAMPLED	15-Jan-24
SAMPLE No.	406704	DATE RECEIVED	16-Jan-24
DATE TESTED	17-Jan-24	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Moisture Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.8	40.3	1.020	
Determination 2 (avg)	18.8	40.3		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
23.0	41	16	25	88



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M U R R A Y R I X

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TEST CERTIFICATE

DETERMINATION OF WATER-SOLUBLE SULPHATE IN SOIL
& DETERMINATION OF THE pH VALUE
BS 1377-3:2018+A1:2021, Cl. 7.3 & Cl. 12

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A5595 - Burnage Lane
JOB NUMBER	MRN 24055/9

DATE TESTED	17-Jan-24	DATE SAMPLED	15-Jan-24
SAMPLED BY	Client	DATE RECEIVED	16-Jan-24
PRE-TREATMENT	Air Dried	ADVISED SOURCE	Site Investigation Samples

Sample Number	Sample Label	Material	% Ret. 2mm	pH Value	Water Soluble Sulphate as SO_4 (mg/l)
406702	WS04 1.00m	Brown silty slightly sandy slightly gravelly CLAY	6	7.2	80
406704	WS05 1.00m	Brown silty slightly sandy slightly gravelly CLAY	4	7.4	90
406705	WS05 2.60m	Red silty gravelly SAND	15	7.6	120

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(Laboratory Manager)

DATE 05-Feb-24