

TEST REPORT

Client Earth Environmental & Geotechnical Ltd

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

Contract A4245 -
Mirfield

Job Number MRN 4589/14
Date of Issue 14 February 2023
Page 1 of 8

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.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

Murray Rix is the trading name of Murray Rix (Northern) Limited. Registered in England 2878361

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
 BS EN ISO 17892-4:2016

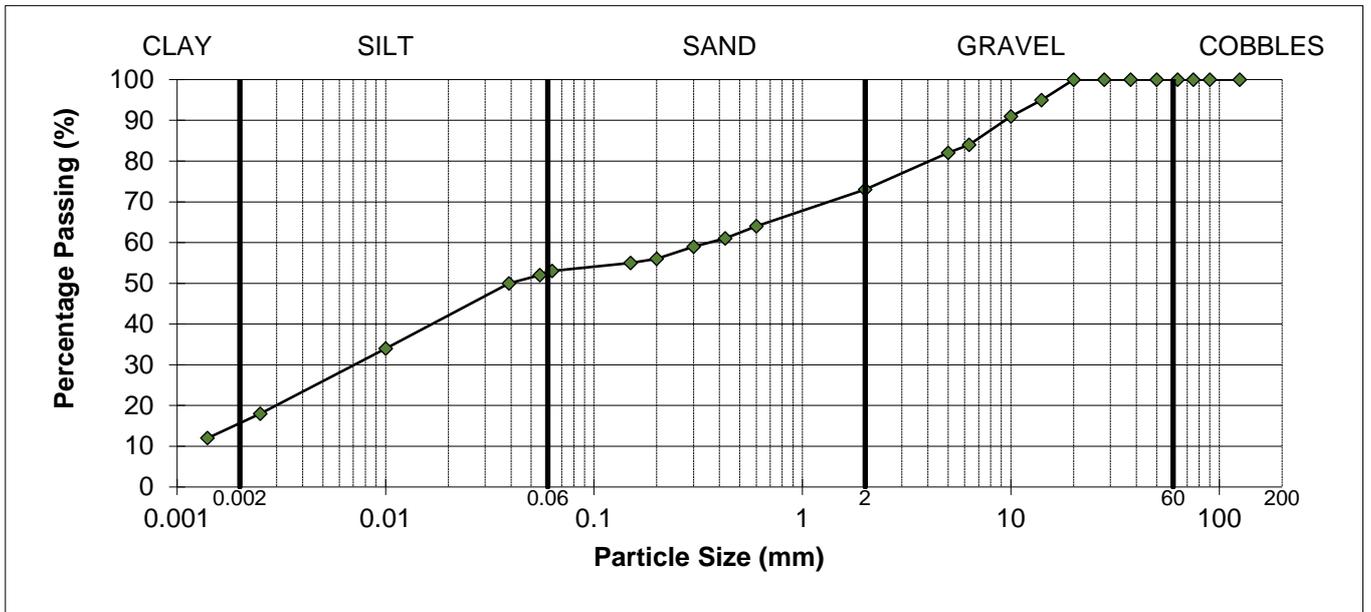
Determination of Water Content in accordance with BS EN ISO 17892-1:2014 (Oven Dry)

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A4245 - Mirfield
JOB NUMBER	MRN 4589/14

SAMPLE LABEL	WS1 3.25	DATE SAMPLED	30-Jan-23
LAB SAMPLE No	120902	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Stiff grey brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2	73	
90	100		0.6	64	
75	100		0.425	61	
63	100		0.3	59	
50	100		0.2	56	
37.5	100		0.15	55	
28	100		0.063	53	
20	100		0.055	52	
14	95		0.039	50	
10	91		0.01	34	
6.3	84		0.0025	18	
5	82		0.0014	12	



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE

14-Feb-23

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION
 BS EN ISO 17892-4:2016

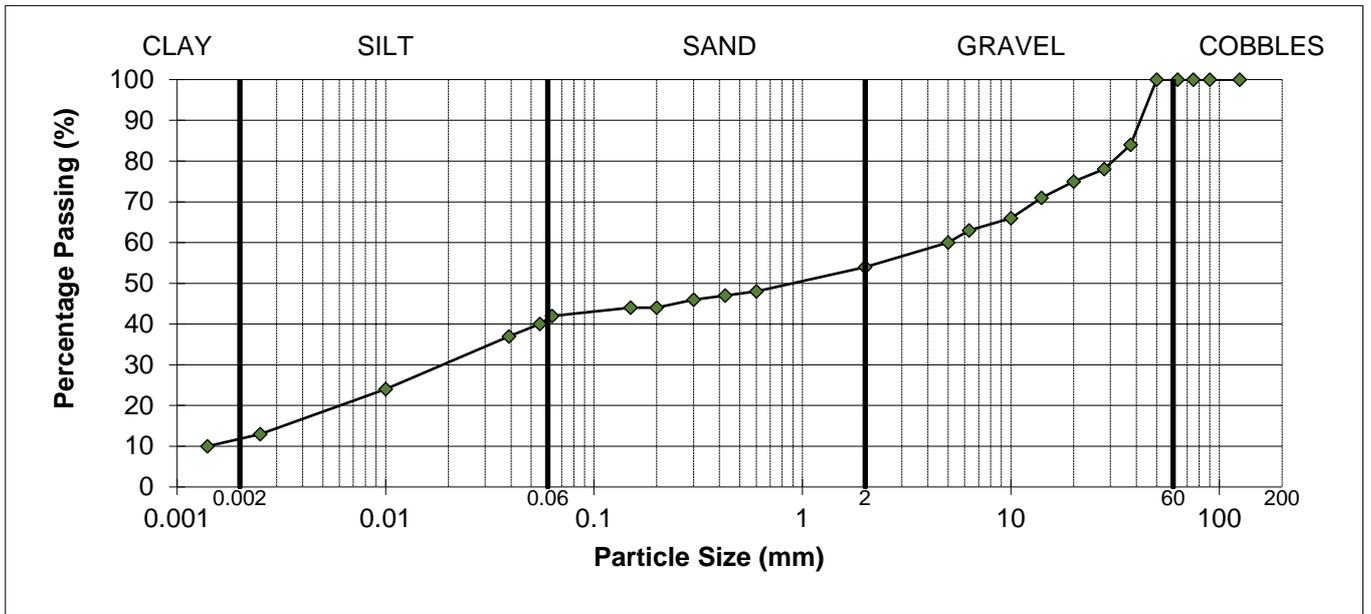
Determination of Water Content in accordance with BS EN ISO 17892-1:2014 (Oven Dry)

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A4245 - Mirfield
JOB NUMBER	MRN 4589/14

SAMPLE LABEL	WS03 1.00	DATE SAMPLED	30-Jan-23
LAB SAMPLE No	120904	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Stiff grey brown silty slightly sandy gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2	54	
90	100		0.6	48	
75	100		0.425	47	
63	100		0.3	46	
50	100		0.2	44	
37.5	84		0.15	44	
28	78		0.063	42	
20	75		0.055	40	
14	71		0.039	37	
10	66		0.01	24	
6.3	63		0.0025	13	
5	60		0.0014	10	



REMARKS

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 (Laboratory Manager)

DATE

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MURRAY RIX

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



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A1:2021 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A1:2021 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014

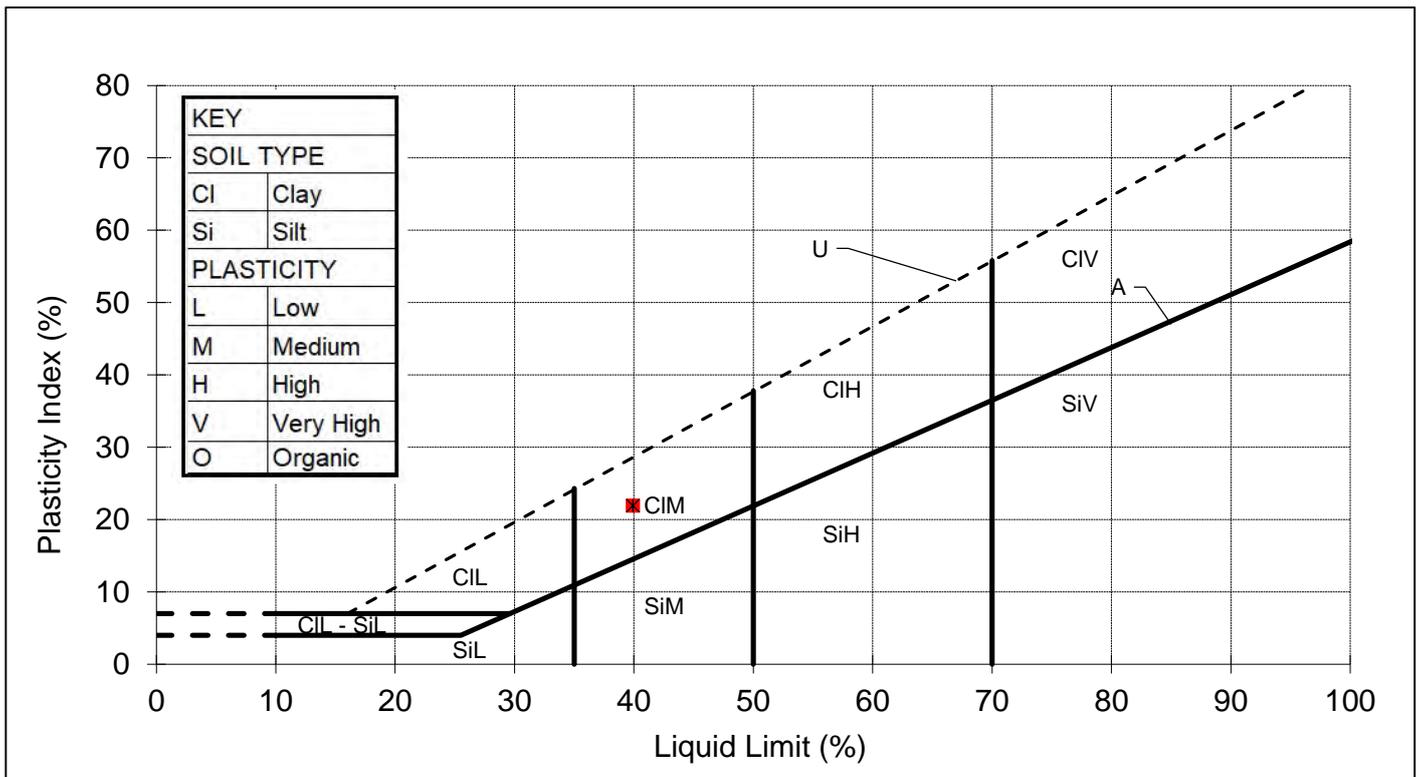
CLIENT	Earth Environmental & Geotechnical Ltd		
SITE	A4245 - Mirfield		
JOB NUMBER	MRN 4589/14		

SAMPLE LABEL	WS01 1.50	DATE SAMPLED	30-Jan-23
SAMPLE No.	120902	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Stiff grey 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)	18.5	38.9		1.025
Determination 2 (avg)	18.7	39.0		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
20.1	40	18	22	61



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WATER CONTENT METHOD BS EN ISO 17892-1:2014

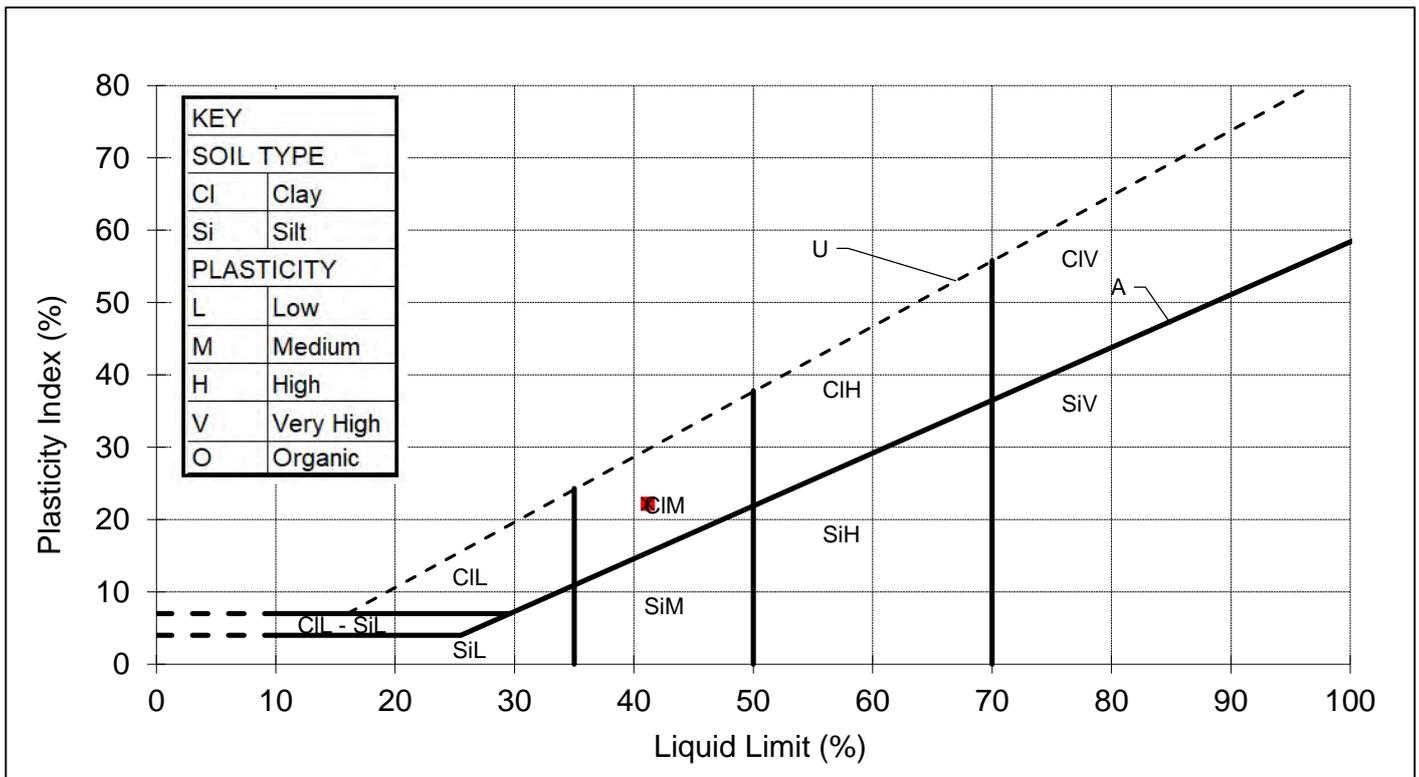
CLIENT	Earth Environmental & Geotechnical Ltd		
SITE	A4245 - Mirfield		
JOB NUMBER	MRN 4589/14		

SAMPLE LABEL	WS02 2.50	DATE SAMPLED	30-Jan-23
SAMPLE No.	120903	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Stiff grey 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)	20.0	41.0		0.998
Determination 2 (avg)	20.4	41.5		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
19.5	41	19	22	80



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WATER CONTENT METHOD BS EN ISO 17892-1:2014

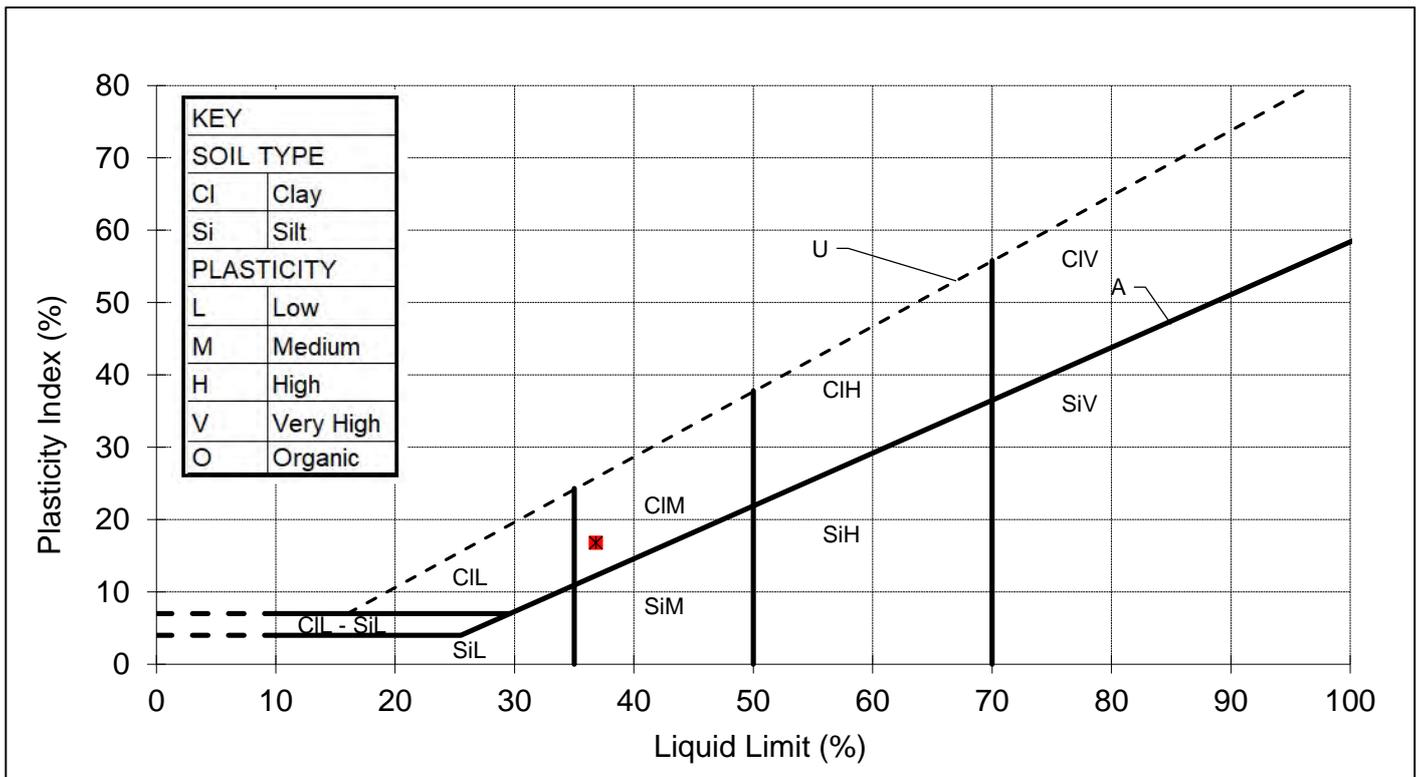
CLIENT	Earth Environmental & Geotechnical Ltd		
SITE	A4245 - Mirfield		
JOB NUMBER	MRN 4589/14		

SAMPLE LABEL	WS03 1.00	DATE SAMPLED	30-Jan-23
SAMPLE No.	120904	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Stiff grey brown silty slightly sandy 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)	18.1	35.8		1.029
Determination 2 (avg)	18.7	35.7		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15.1	37	20	17	47



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WATER CONTENT METHOD BS EN ISO 17892-1:2014

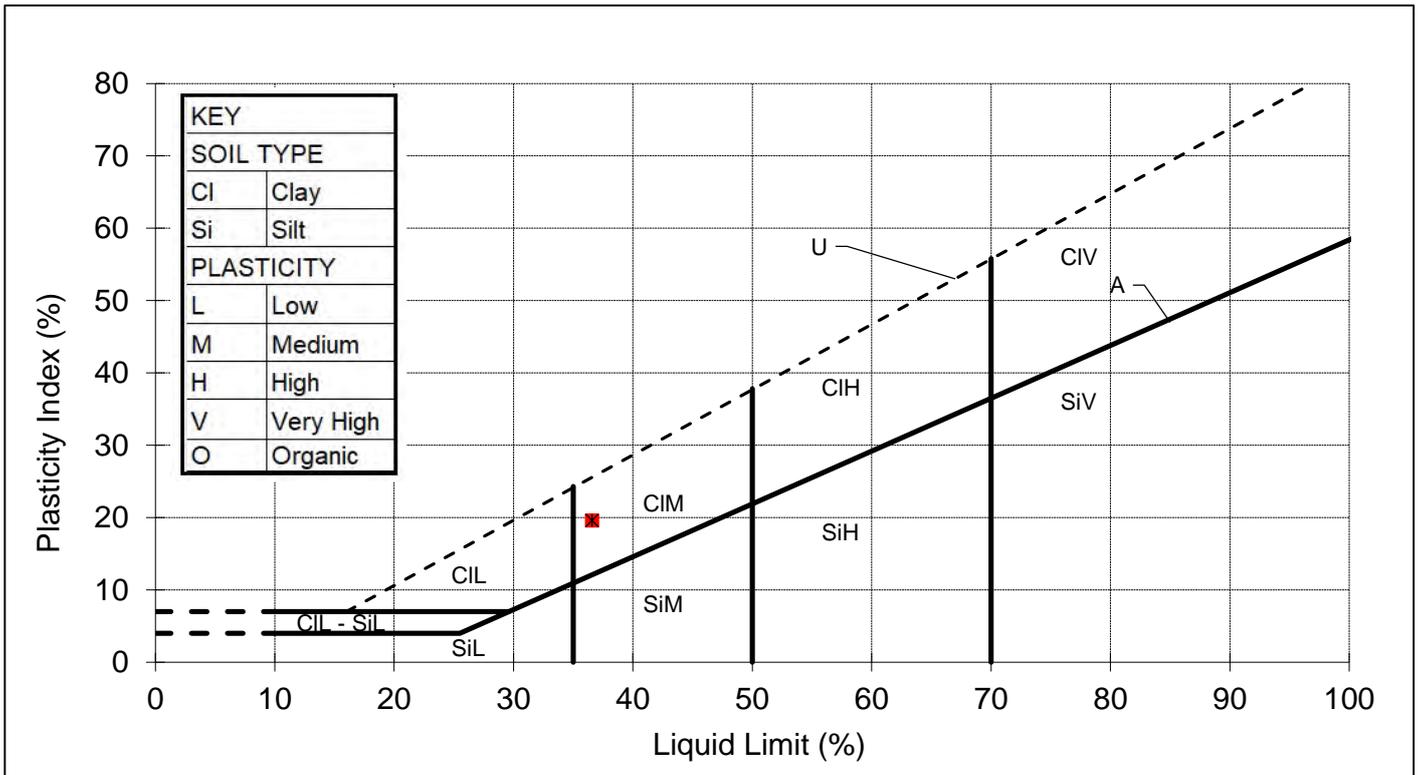
CLIENT	Earth Environmental & Geotechnical Ltd		
SITE	A4245 - Mirfield		
JOB NUMBER	MRN 4589/14		

SAMPLE LABEL	WS05 2.50	DATE SAMPLED	30-Jan-23
SAMPLE No.	120905	DATE RECEIVED	31-Jan-23
DATE TESTED	02-Feb-23	SAMPLED BY	Client

MATERIAL	Firm grey brown silty slightly sandy 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)	21.3	37.5	
Determination 2 (avg)	21.2	37.1	

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
23.8	37	17	20	85



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