

# ***APPENDIX I***



# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,  
 cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022,  
 cl 5.3, 6

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



4041

Client: Robert E Fry & Associates Ltd  
 Client Address: 45 Bridgeman Terrace, WN1 1TT

Client Reference: 24182  
 Job Number: 25-001418-1  
 Date Sampled: 09/01/2025  
 Date Received: 15/01/2025  
 Date Tested: 21/01/2025  
 Sampled By: Not Given

Contact: Hollie Marengo  
 Site Address: Liverpool Road, Hutton

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

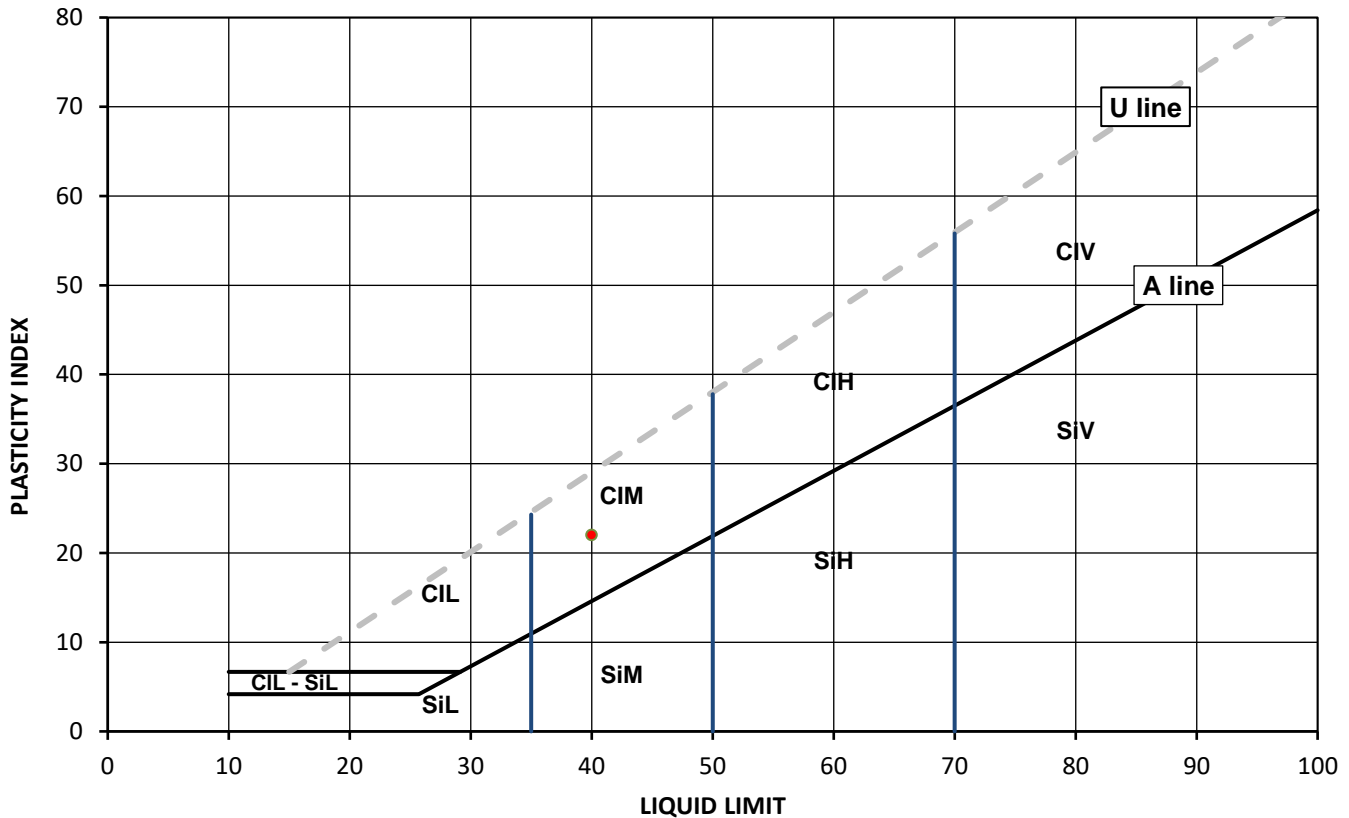
**Test Results:**

Laboratory Reference: 424240  
 Hole No.: WS04  
 Sample Reference: Not Given  
 Sample Description: Yellowish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.70  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.2	40	0.981	18	22	-0.05	1.05	98



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

Remarks:

Signed:

Katarzyna Koziel  
 Geotechnical Reporting Team Leader  
 for and on behalf of i2 Analytical Ltd

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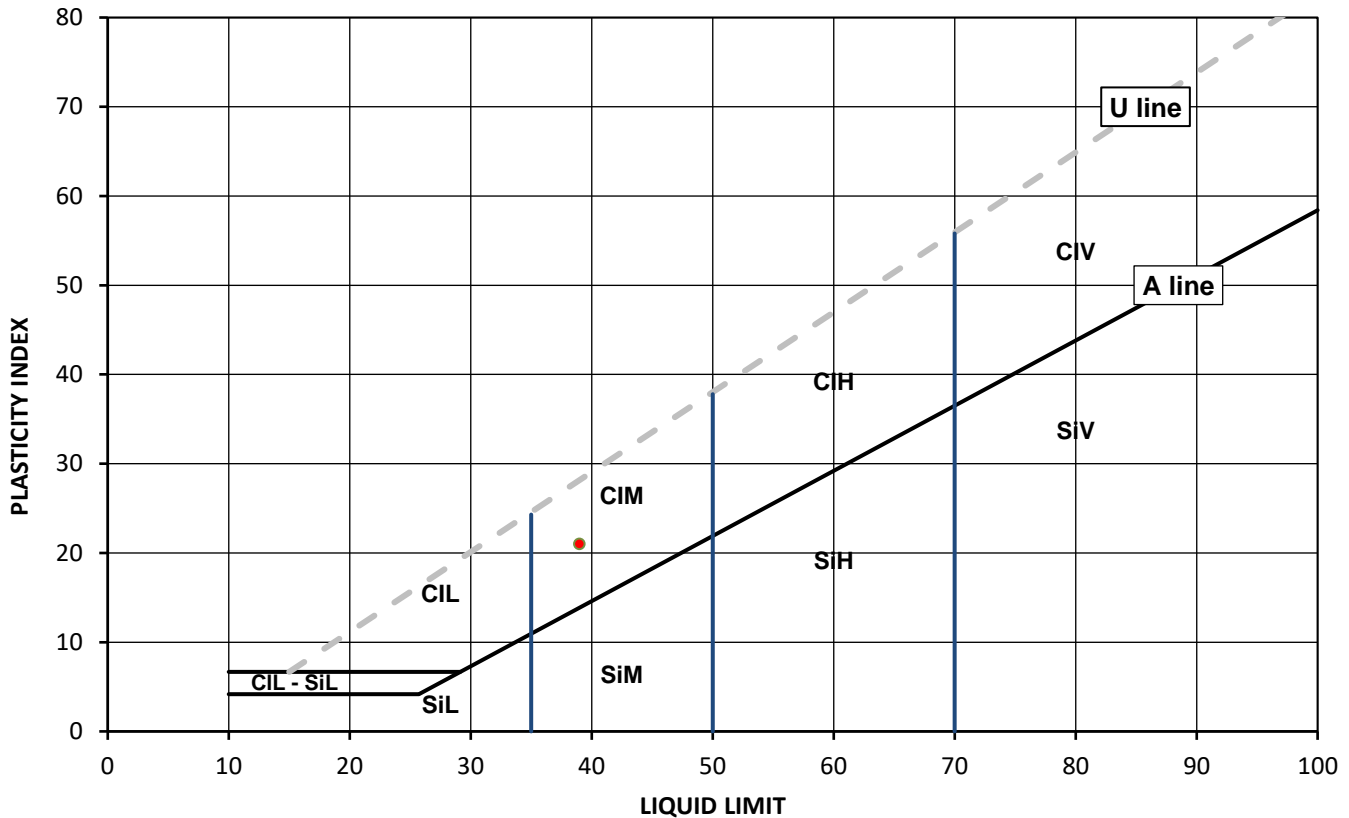
**Test Results:**

Laboratory Reference: 424241  
 Hole No.: TP01  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.2	39	0.984	18	21	-0.05	1.05	93



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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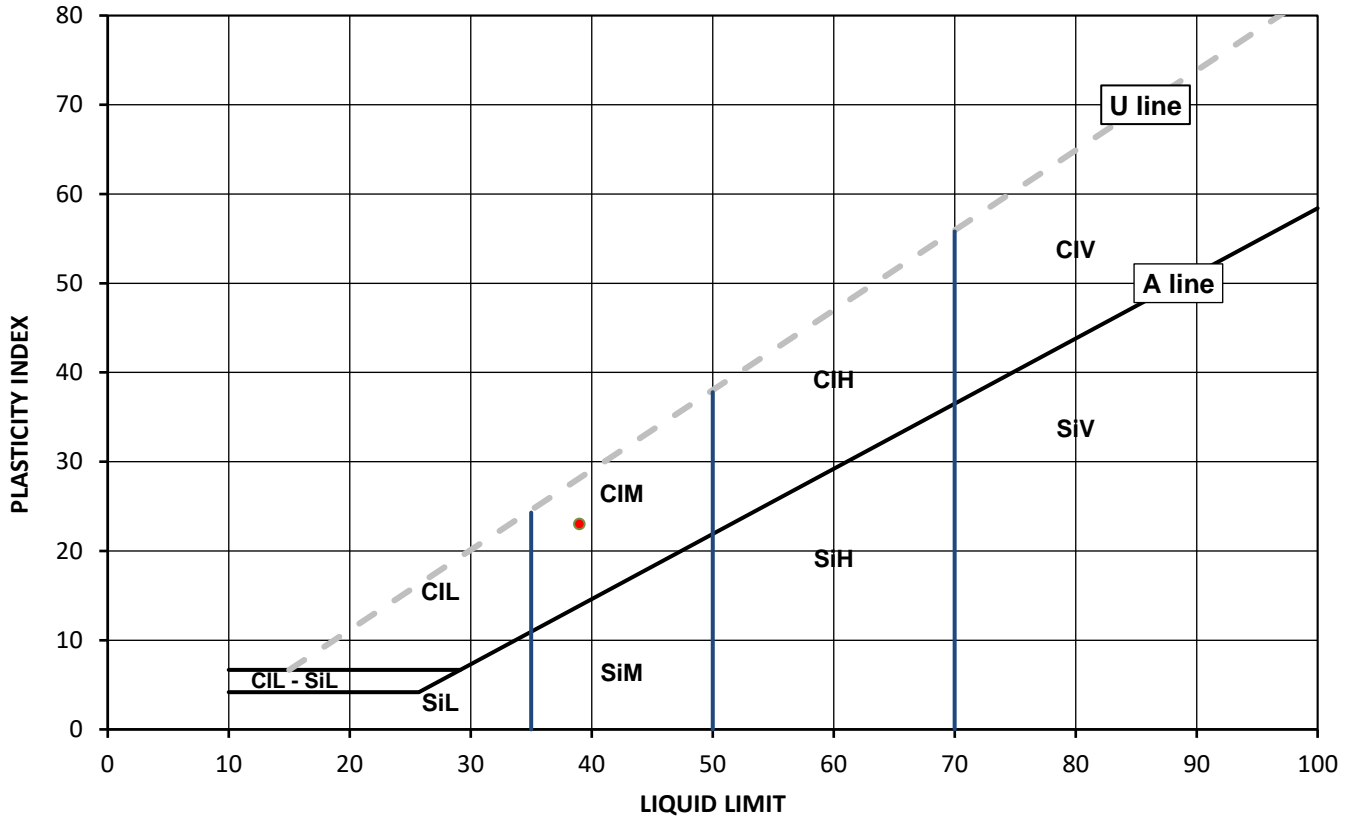
**Test Results:**

Laboratory Reference: 424242  
 Hole No.: TP02  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.10  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.7	39	1.041	16	23	0.09	0.91	69



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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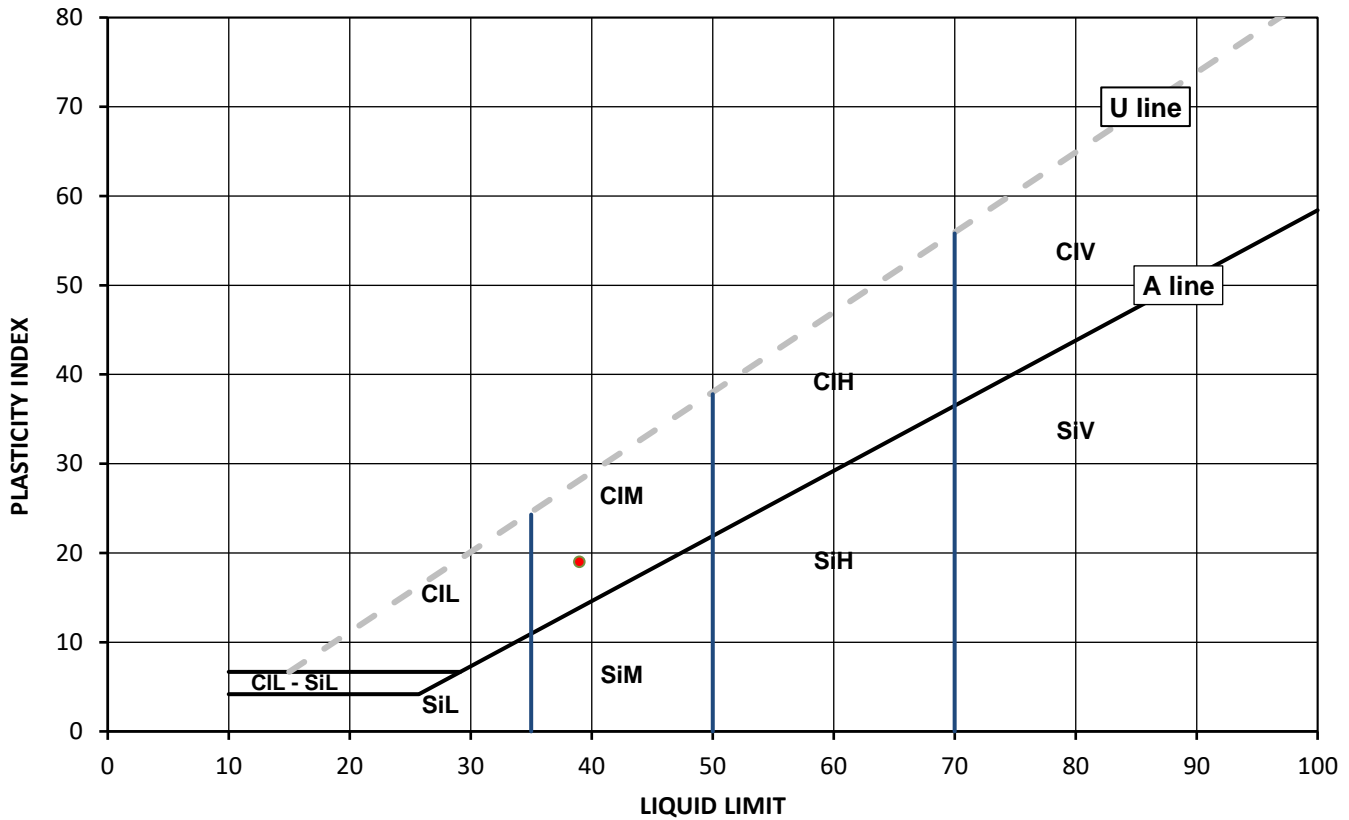
**Test Results:**

Laboratory Reference: 424243  
 Hole No.: TP07  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after washing to remove >0.425 mm;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.2	39	0.968	20	19	-0.16	1.16	95



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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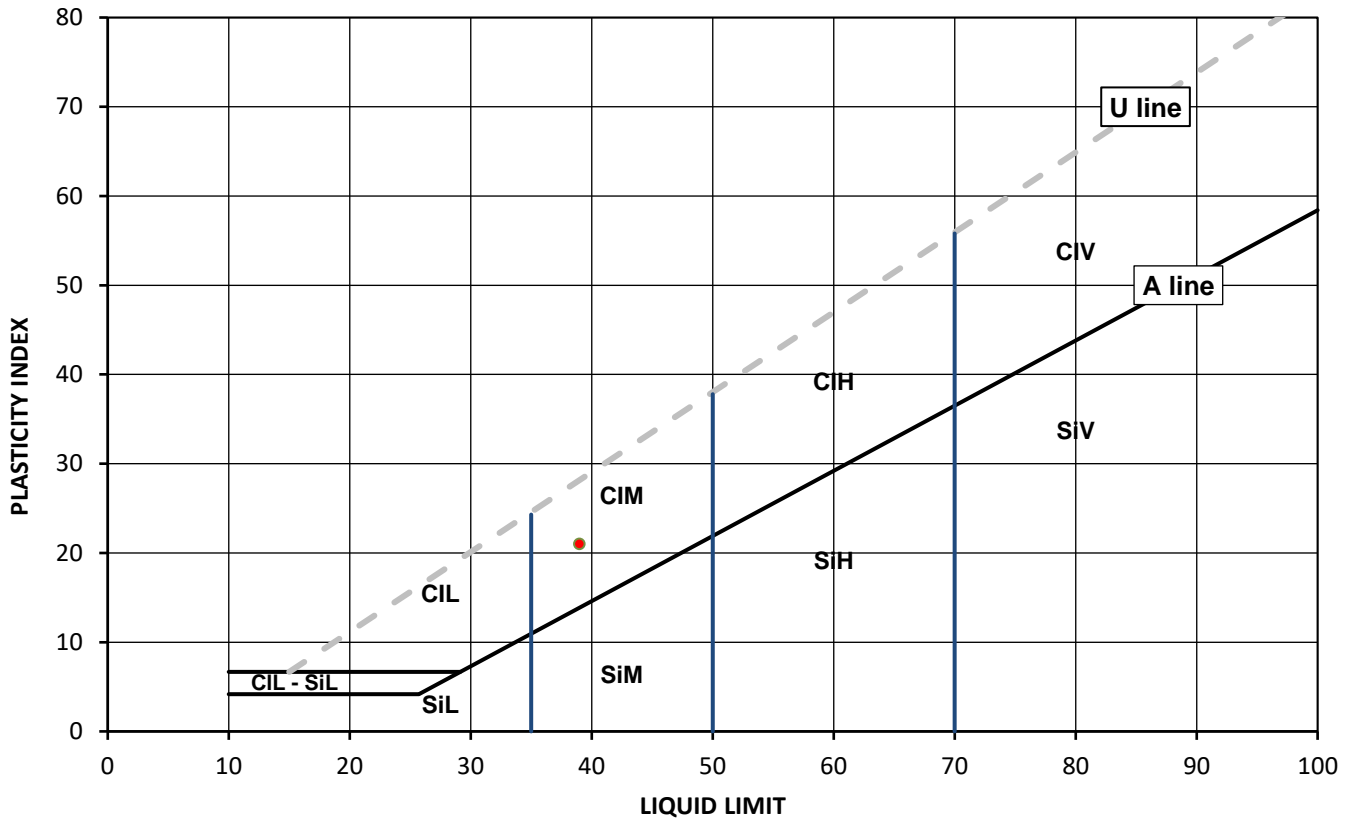
**Test Results:**

Laboratory Reference: 424244  
 Hole No.: TP11  
 Sample Reference: Not Given  
 Sample Description: Brownish grey sandy CLAY

Depth Top [m]: 2.10  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested in natural condition;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
18.0	39	1.039	18	21	0.00	1.00	100



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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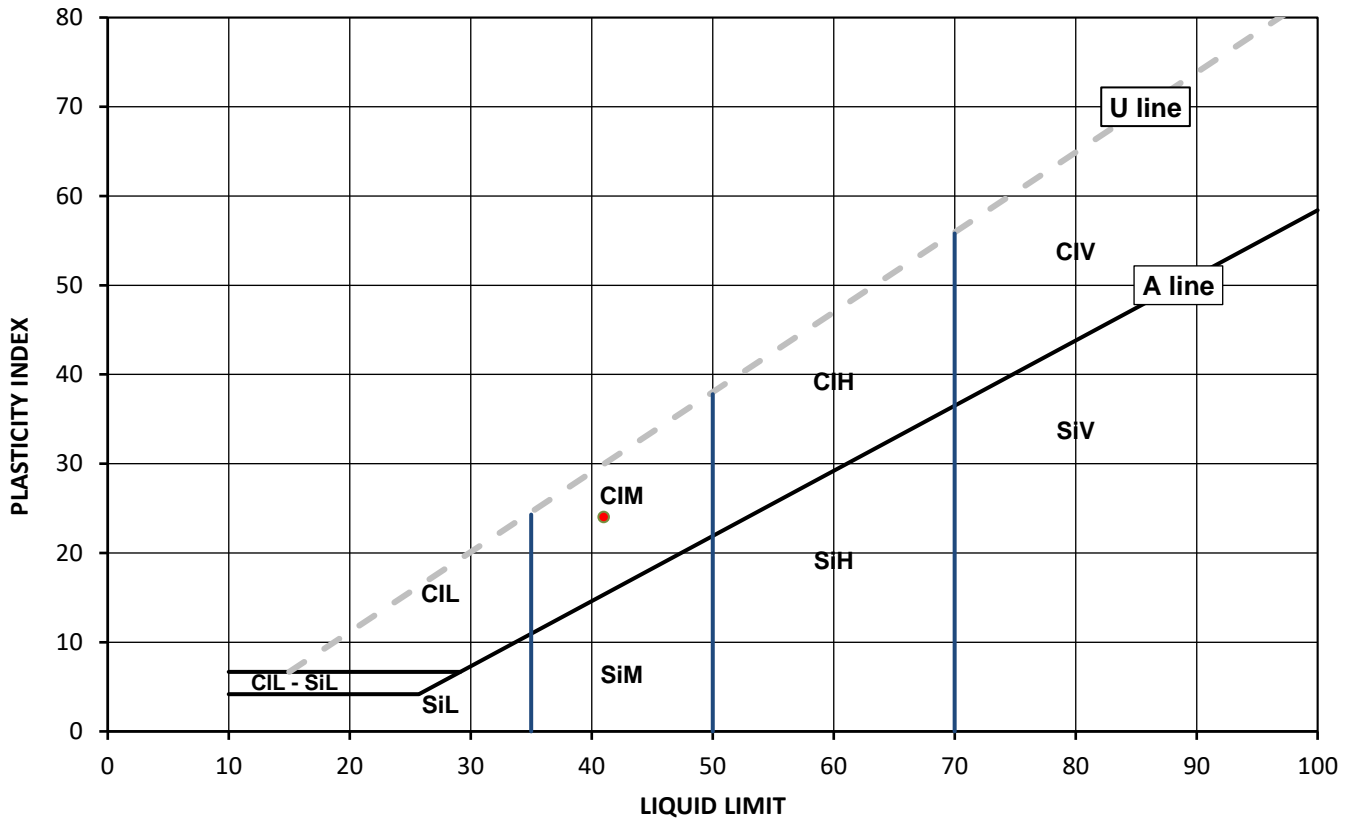
**Test Results:**

Laboratory Reference: 424245  
 Hole No.: TP12  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.0	41	1.058	17	24	0.00	1.00	89



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

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

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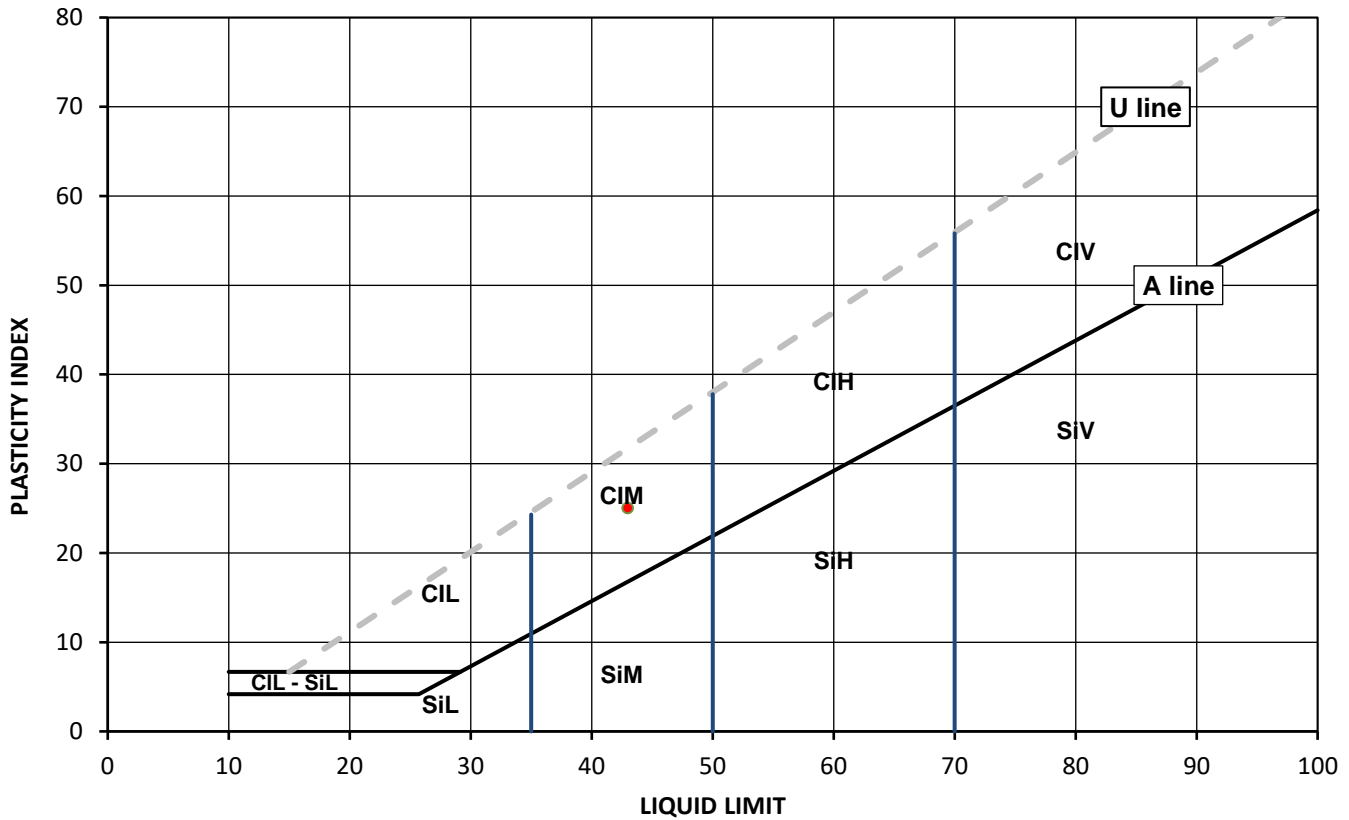
**Test Results:**

Laboratory Reference: 424246  
 Hole No.: TP14  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.30  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.7	43	1.058	18	25	0.00	1.00	88



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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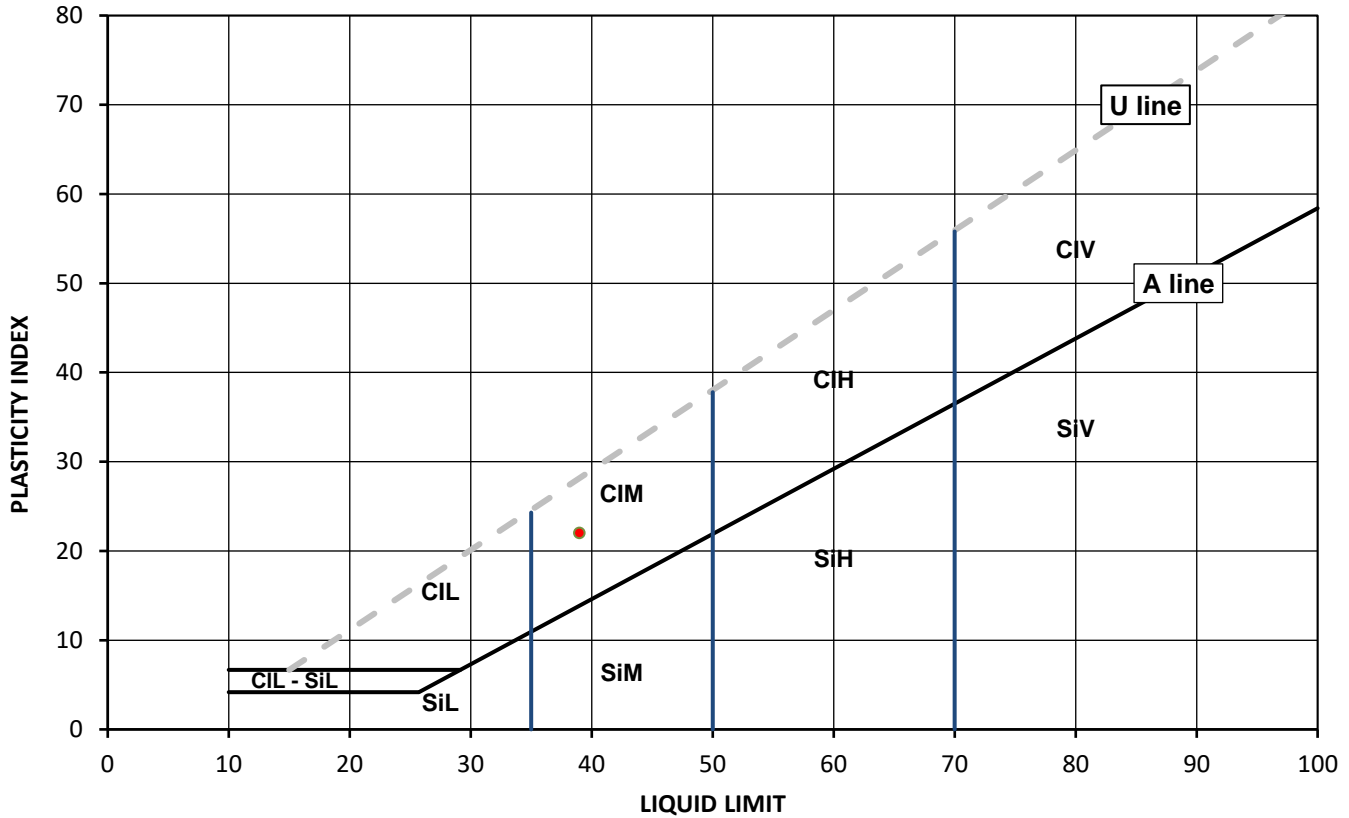
**Test Results:**

Laboratory Reference: 424249  
 Hole No.: TP18  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.90  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.8	39	1.000	17	22	0.05	0.95	92



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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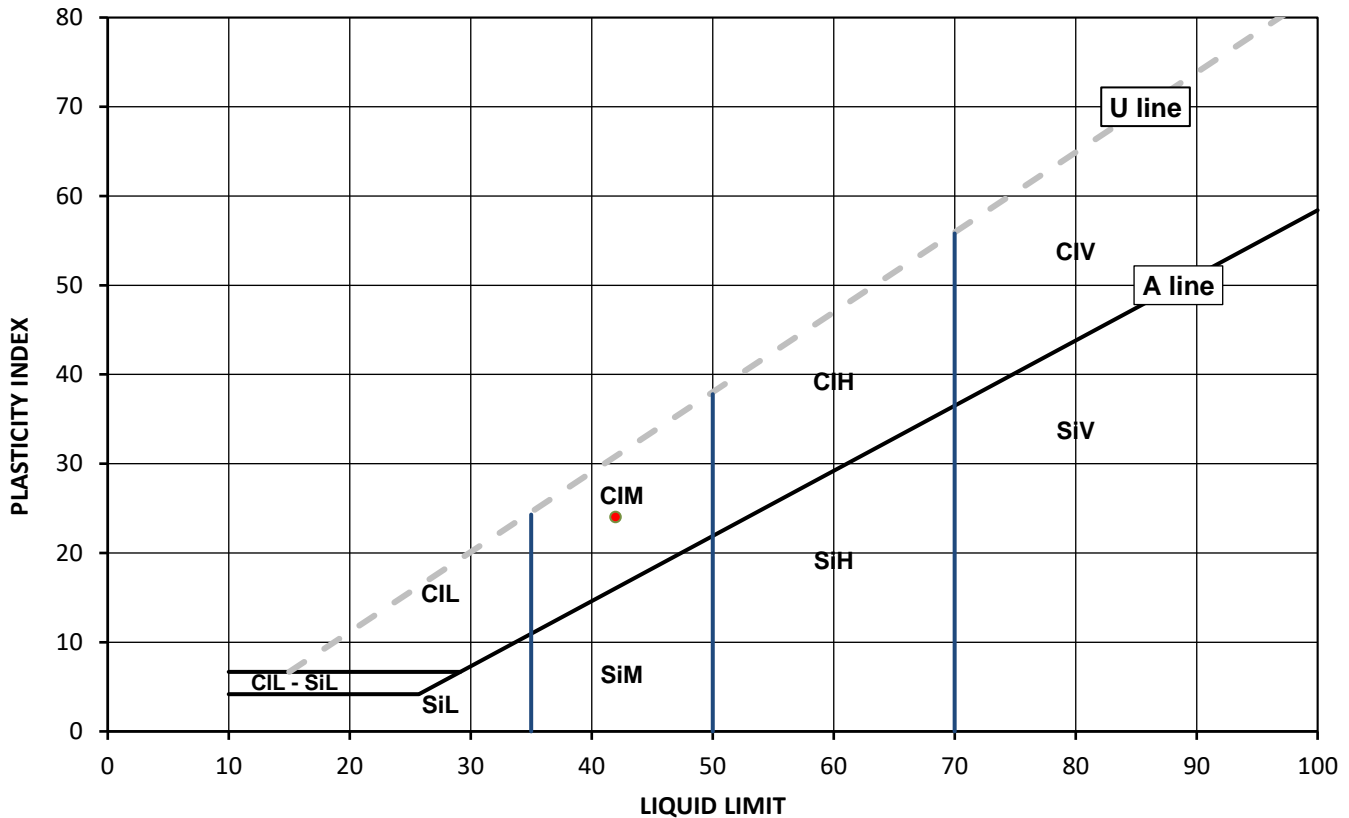
**Test Results:**

Laboratory Reference: 424250  
 Hole No.: TP19  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.20  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
18.8	42	1.019	18	24	0.04	0.96	98



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

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

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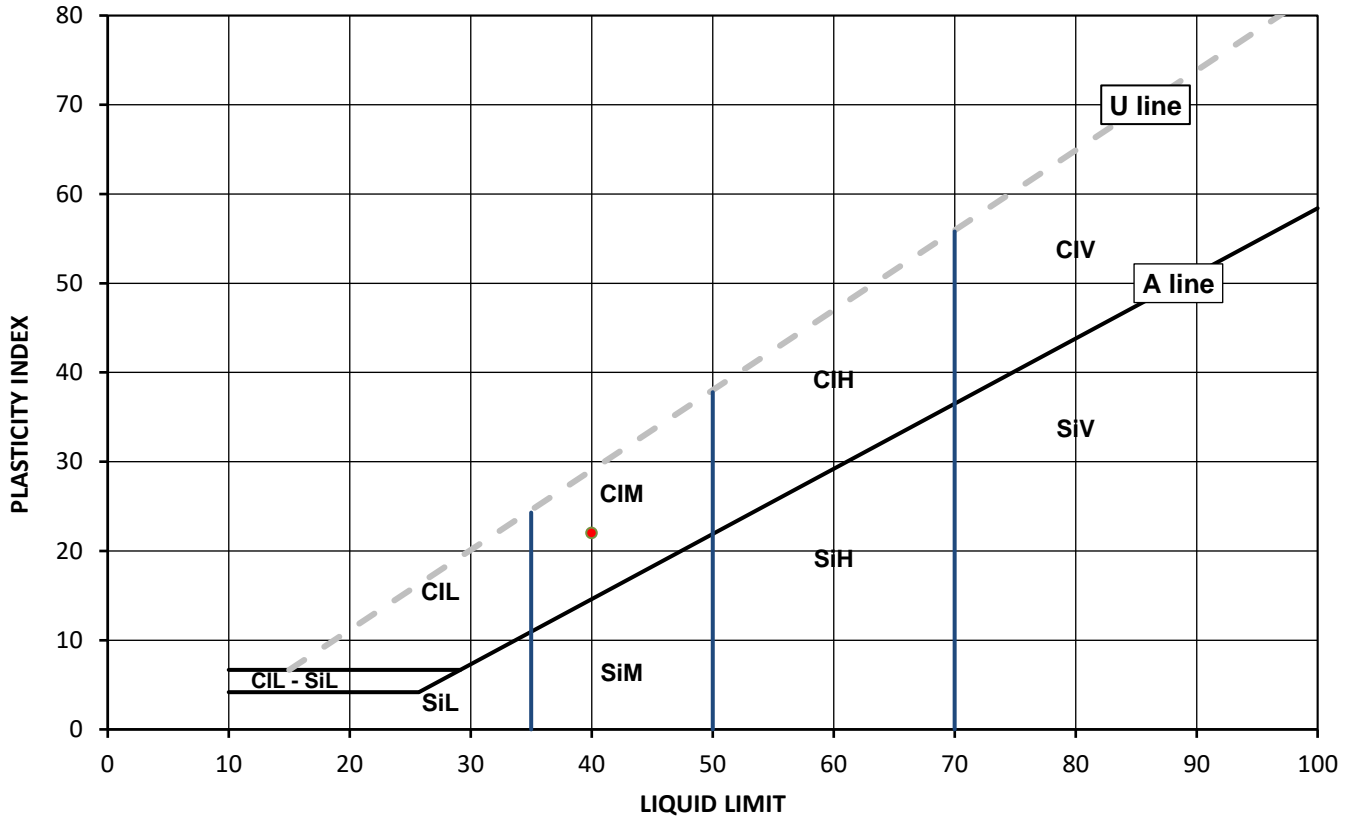
**Test Results:**

Laboratory Reference: 424251  
 Hole No.: TP20  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
16.6	40	1.058	18	22	-0.05	1.05	82



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

Cl	Clay	Plasticity	L	Low	Liquid Limit	below 35
Si	Silt	M	Medium	35 to 50		
		H	High	50 to 70		
		V	Very high	exceeding 70		
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Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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# TEST CERTIFICATE

**DETERMINATION OF LIQUID AND PLASTIC LIMITS**  
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,  
 cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022,  
 cl 5.3, 6

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



4041

Client: Robert E Fry & Associates Ltd  
 Client Address: 45 Bridgeman Terrace, WN1 1TT

Client Reference: 24182  
 Job Number: 25-001418-1  
 Date Sampled: 09/01/2025  
 Date Received: 15/01/2025  
 Date Tested: 21/01/2025  
 Sampled By: Not Given

Contact: Hollie Marengo  
 Site Address: Liverpool Road, Hutton

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

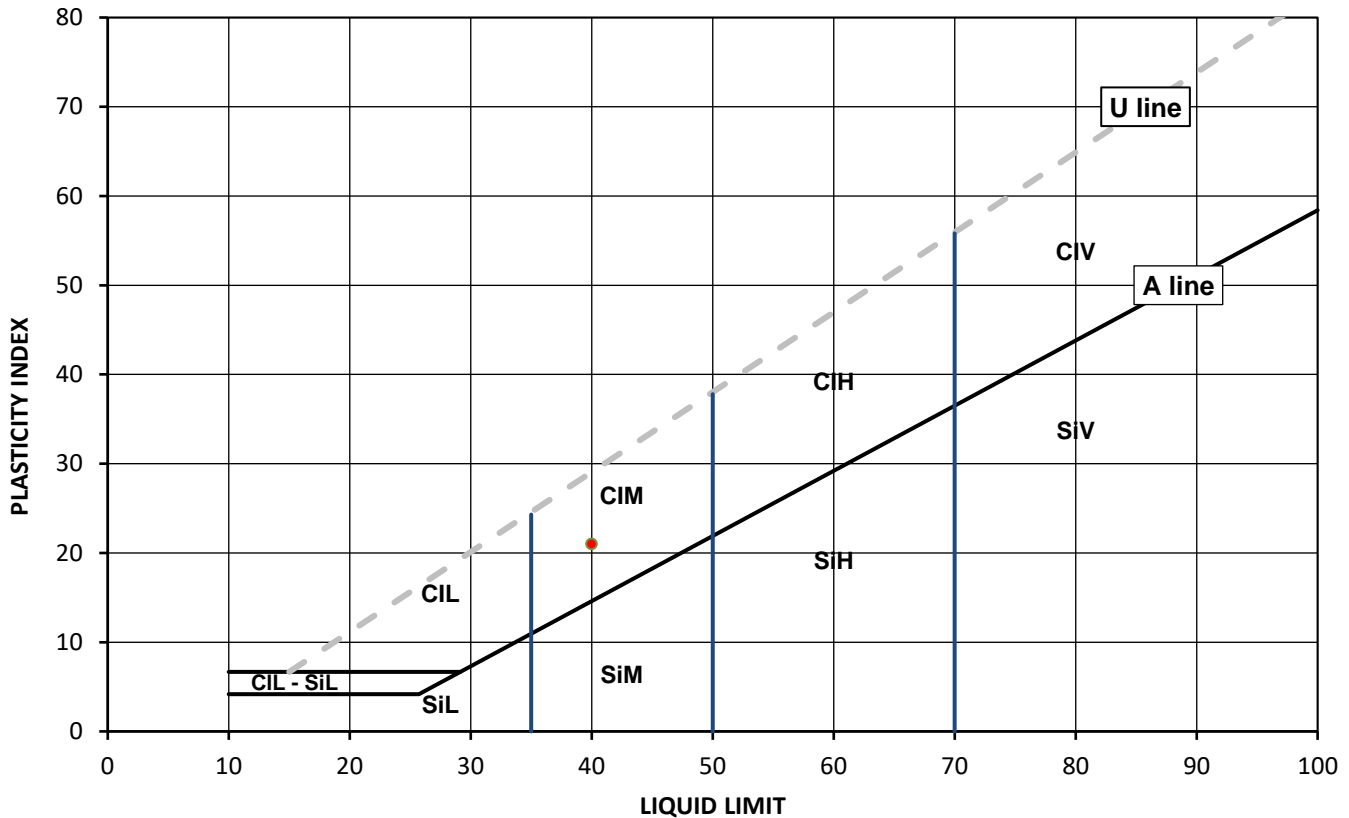
**Test Results:**

Laboratory Reference: 424252  
 Hole No.: TP22  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
16.4	40	0.984	19	21	-0.14	1.14	90



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

Remarks:

Signed:

Katarzyna Koziel  
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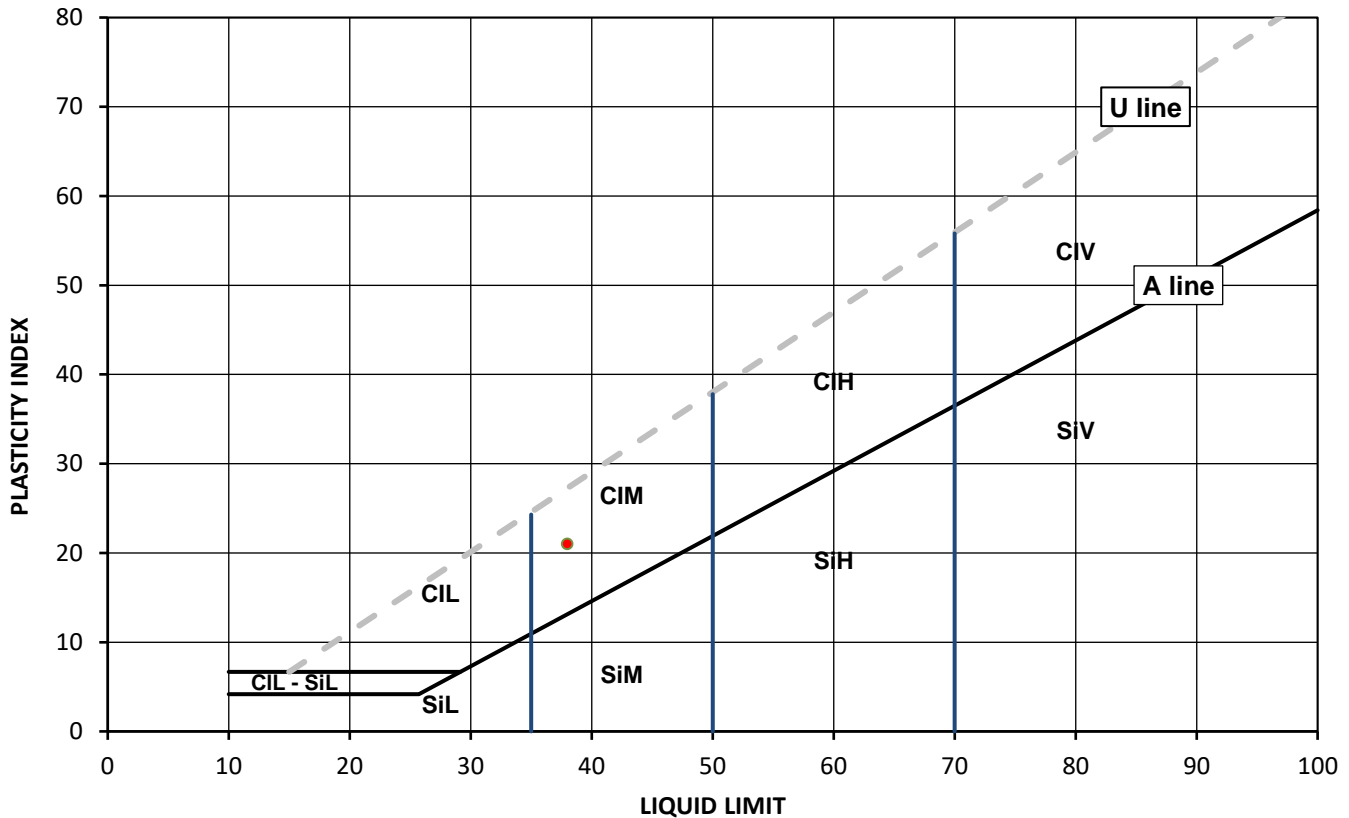
**Test Results:**

Laboratory Reference: 424253  
 Hole No.: TP16  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.40  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.0	38	1.000	17	21	0.00	1.00	96



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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 Sampled By: Not Given

Contact: Hollie Marengo  
 Site Address: Liverpool Road, Hutton

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

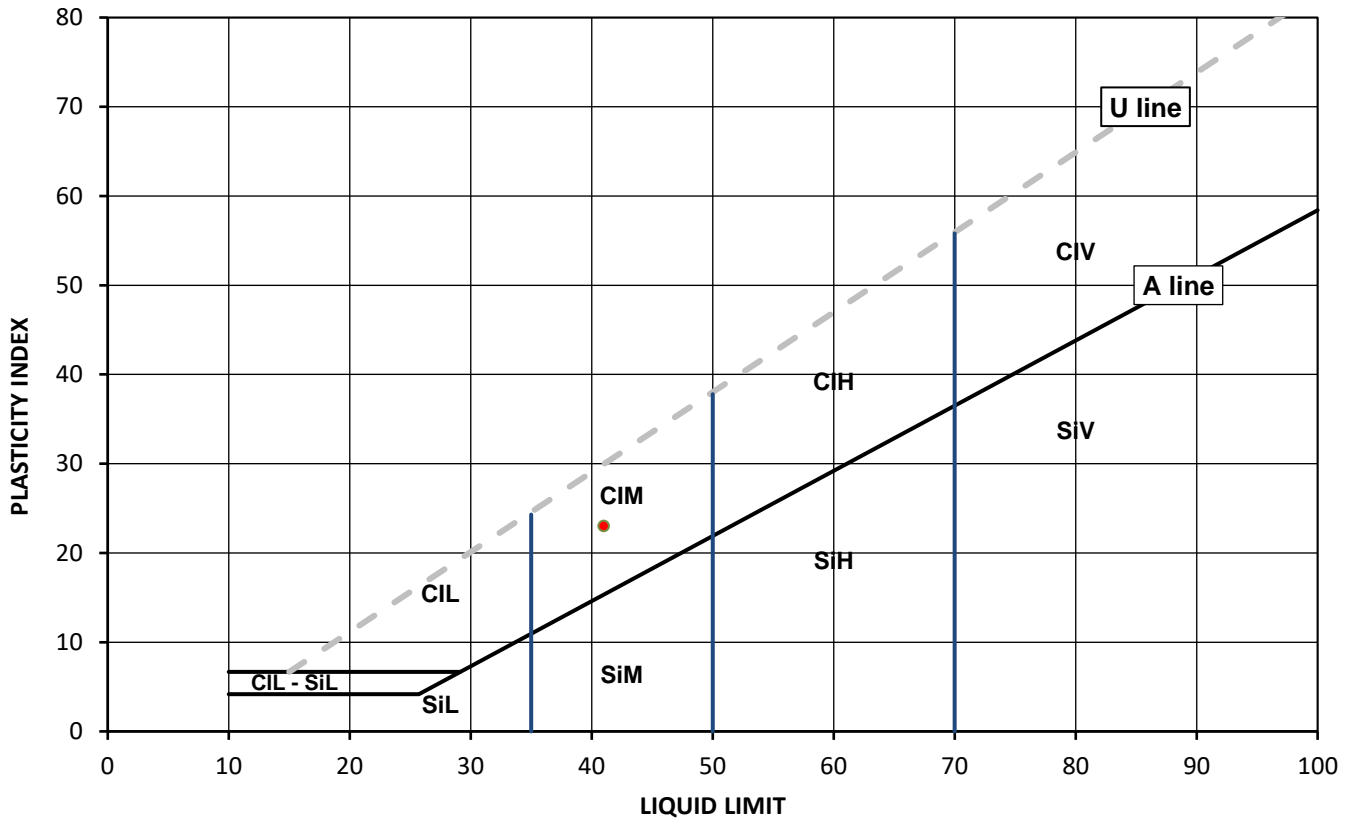
**Test Results:**

Laboratory Reference: 424254  
 Hole No.: TP24  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.40  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
16.7	41	1.058	18	23	-0.04	1.04	95



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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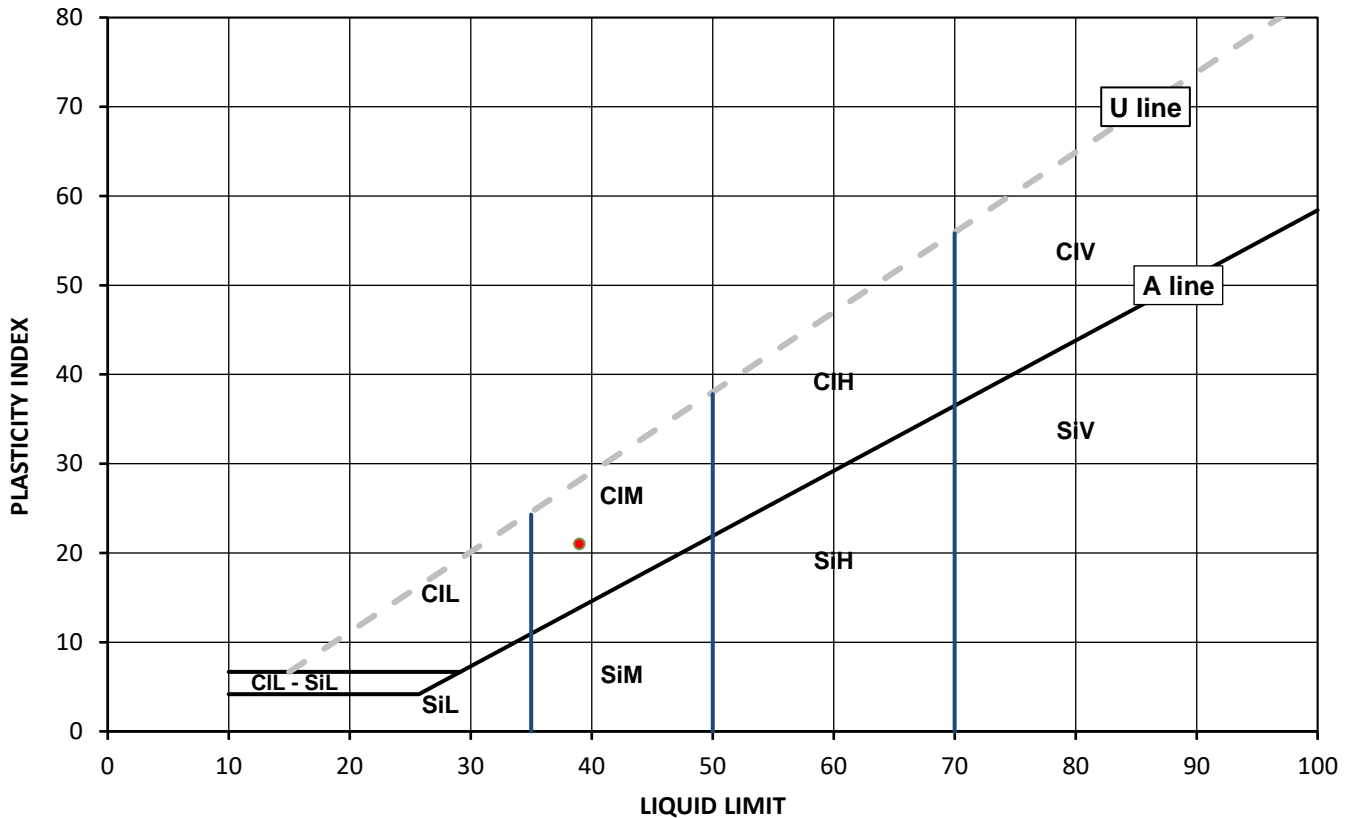
**Test Results:**

Laboratory Reference: 424255  
 Hole No.: TP26  
 Sample Reference: Not Given  
 Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 2.30  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.9	39	1.020	18	21	0.00	1.00	96



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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# TEST CERTIFICATE

## DETERMINATION OF LIQUID AND PLASTIC LIMITS

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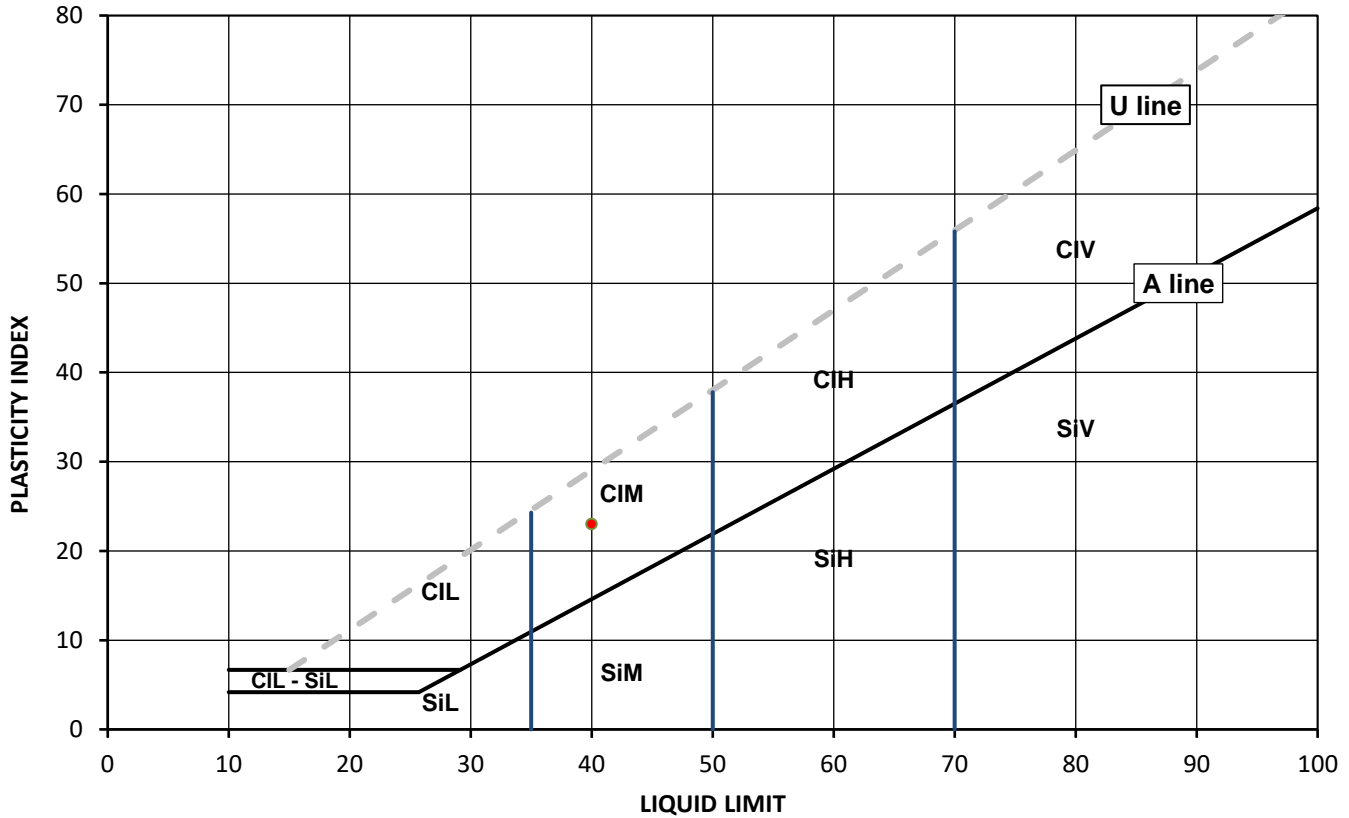
### Test Results:

Laboratory Reference: 424256  
Hole No.: TP27  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
18.7	40	1.020	17	23	0.09	0.91	83



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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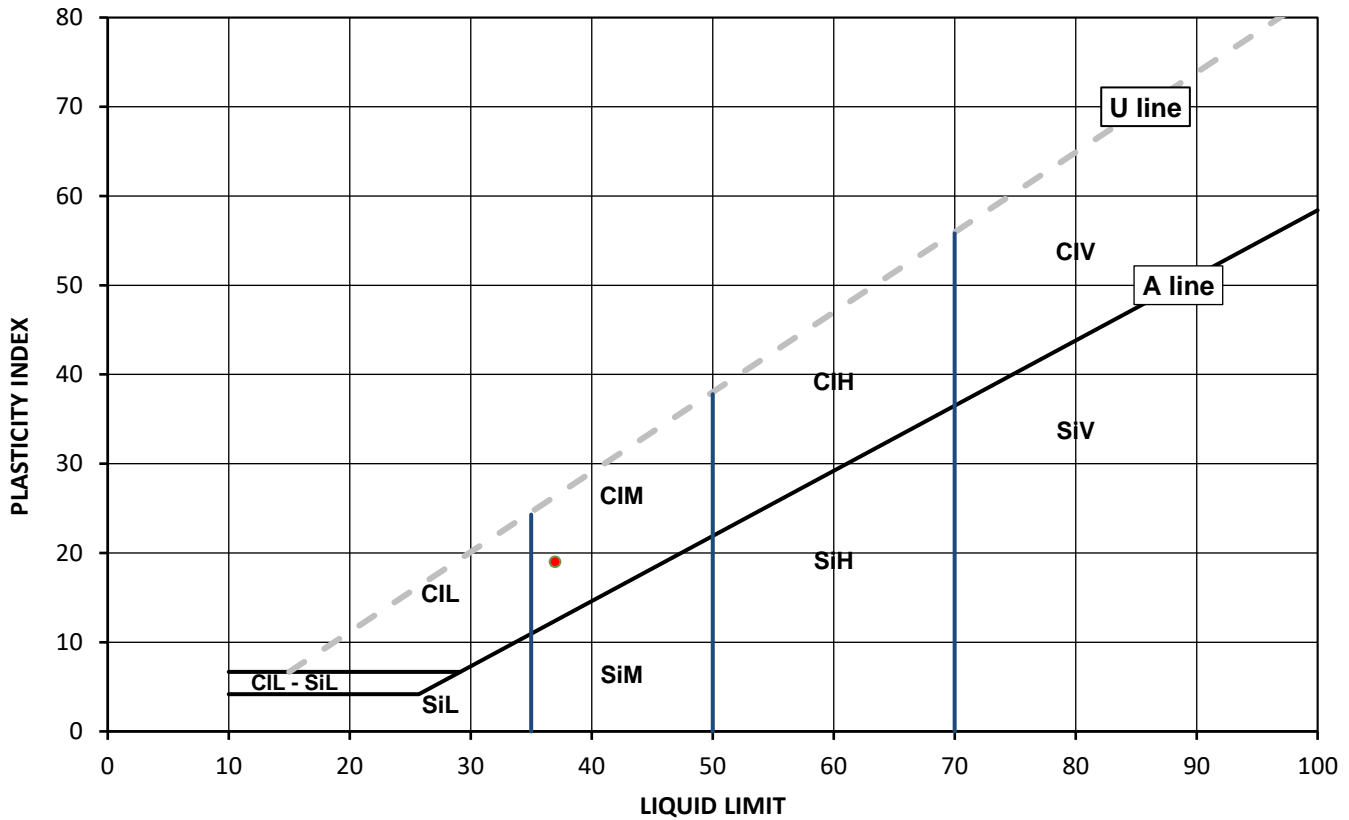
**Test Results:**

Laboratory Reference: 424257  
 Hole No.: TP28  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 2.20  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
16.7	37	1.000	18	19	-0.05	1.05	78



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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

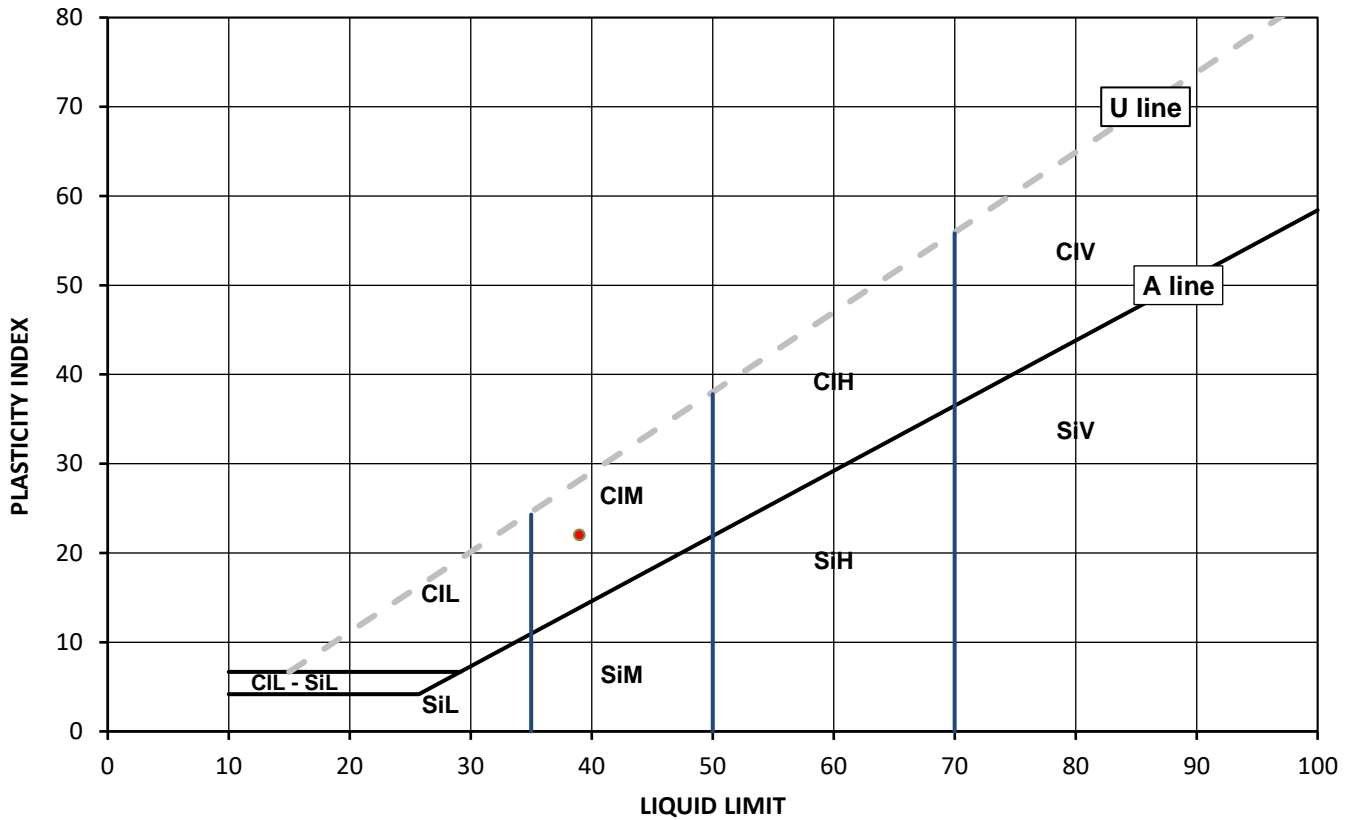
**Test Results:**

Laboratory Reference: 424258  
 Hole No.: TP31  
 Sample Reference: Not Given  
 Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.70  
 Depth Base [m]: Not Given  
 Sample Type: D

Sample Preparation: Tested after >0.425 mm removed by hand;  
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity index [IL] % #	Consistency index [IC] % #	% Passing 425µm BS Test Sieve
17.3	39	0.984	17	22	0.00	1.00	98



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

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

Note: Water Content by BS EN 17892-1:2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978); # Non accredited

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# SUMMARY REPORT

## SUMMARY OF CLASSIFICATION TEST RESULTS

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



Environmental Science

Tested in Accordance with:

BS EN ISO 17892-12:2018+A2:2022, cl 5.3.14, 5.5, Fall Cone Method, 1 Pt Test, BS 1377-2:2022, cl 5.3, 6. Correlation Factor by Clayton C.R.I and Jukes A.W (1978). W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: 24182

Job Number: 25-001418-1

Date Sampled: 09/01/2025

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Date Tested: 21/01/2025

Sampled By: Not Given

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Site Address: Liverpool Road, Hutton

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

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W %	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type				% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
424240	WS04	Not Given	1.70	Not Given	D	Yellowish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.2	98	40	0.981	18	22	80g/30 deg	R			
424241	TP01	Not Given	1.50	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.2	93	39	0.984	18	21	80g/30 deg	R			
424242	TP02	Not Given	2.10	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.7	69	39	1.041	16	23	80g/30 deg	R			
424243	TP07	Not Given	1.60	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.2	95	39	0.968	20	19	80g/30 deg	WR			
424244	TP11	Not Given	2.10	Not Given	D	Brownish grey sandy CLAY	Atterberg 1 Point	18.0	100	39	1.039	18	21	80g/30 deg	N			
424245	TP12	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.0	89	41	1.058	17	24	80g/30 deg	R			
424246	TP14	Not Given	2.30	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.7	88	43	1.058	18	25	80g/30 deg	R			
424249	TP18	Not Given	1.90	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.8	92	39	1.000	17	22	80g/30 deg	R			
424250	TP19	Not Given	2.20	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	18.8	98	42	1.019	18	24	80g/30 deg	R			
424251	TP20	Not Given	1.80	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	16.6	82	40	1.058	18	22	80g/30 deg	R			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0.425mm removed by hand, WR - Tested after washing to remove >425mm; \* - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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## SUMMARY OF CLASSIFICATION TEST RESULTS

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Environmental Science

Tested in Accordance with:

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

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W %	Liquid & Plastic Limit							Density		
		Reference	Depth Top m	Depth Base m	Type				% Passing 425um %	WL* %	Correlation Factor	Wp %	Ip %	Cone type	Sample Preparation	bulk Mg/m3	dry Mg/m3	PD Mg/m3
424252	TP22	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	16.4	90	40	0.984	19	21	80g/30 deg	R			
424253	TP16	Not Given	2.40	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.0	96	38	1.000	17	21	80g/30 deg	R			
424254	TP24	Not Given	2.40	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	16.7	95	41	1.058	18	23	80g/30 deg	R			
424255	TP26	Not Given	2.30	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	17.9	96	39	1.020	18	21	80g/30 deg	R			
424256	TP27	Not Given	2.50	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	18.7	83	40	1.020	17	23	80g/30 deg	R			
424257	TP28	Not Given	2.20	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	16.7	78	37	1.000	18	19	80g/30 deg	R			
424258	TP31	Not Given	1.70	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	17.3	98	39	0.984	17	22	80g/30 deg	R			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0.425mm removed by hand, WR - Tested after washing to remove >425mm; \* - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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**SUMMARY REPORT**  
**DETERMINATION OF WATER CONTENT**

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

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Client Reference: 24182

Job Number: 25-001418-1

Date Sampled: 09/01/2025

Date Received: 15/01/2025

Date Tested: 21/01/2025

Sampled By: Not Given

**Test results**

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %											
		Reference	Depth Top m	Depth Base m	Type														
424240	WS04	Not Given	1.70	Not Given	D	Yellowish grey slightly gravelly sandy CLAY		17.2											
424241	TP01	Not Given	1.50	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.2											
424242	TP02	Not Given	2.10	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.7											
424243	TP07	Not Given	1.60	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.2											
424244	TP11	Not Given	2.10	Not Given	D	Brownish grey sandy CLAY		18.0											
424245	TP12	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.0											
424246	TP14	Not Given	2.30	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.7											
424249	TP18	Not Given	1.90	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.8											
424250	TP19	Not Given	2.20	Not Given	D	Brownish grey slightly gravelly sandy CLAY		18.8											
424251	TP20	Not Given	1.80	Not Given	D	Brownish grey slightly gravelly sandy CLAY		16.6											

Comments:

Signed:

Katarzyna Koziel  
Geotechnical Reporting Team Leader  
for and on behalf of i2 Analytical Ltd

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**SUMMARY REPORT**  
**DETERMINATION OF WATER CONTENT**

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1

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



Environmental Science

4041

Client: Robert E Fry & Associates Ltd

Client Address:  
45 Bridgeman Terrace, WN1 1TT

Contact: Hollie Marengo

Site Address: Liverpool Road, Hutton

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

Client Reference: 24182

Job Number: 25-001418-1

Date Sampled: 09/01/2025

Date Received: 15/01/2025

Date Tested: 21/01/2025

Sampled By: Not Given

**Test results**

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC %											
		Reference	Depth Top m	Depth Base m	Type														
424252	TP22	Not Given	2.00	Not Given	D	Brownish grey slightly gravelly sandy CLAY		16.4											
424253	TP16	Not Given	2.40	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.0											
424254	TP24	Not Given	2.40	Not Given	D	Brownish grey slightly gravelly sandy CLAY		16.7											
424255	TP26	Not Given	2.30	Not Given	D	Brown slightly gravelly sandy CLAY		17.9											
424256	TP27	Not Given	2.50	Not Given	D	Brownish grey slightly gravelly sandy CLAY		18.7											
424257	TP28	Not Given	2.20	Not Given	D	Brownish grey slightly gravelly sandy CLAY		16.7											
424258	TP31	Not Given	1.70	Not Given	D	Brownish grey slightly gravelly sandy CLAY		17.3											

Comments:

Signed:

Katarzyna Koziel  
Geotechnical Reporting Team Leader  
for and on behalf of i2 Analytical Ltd

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# SUMMARY REPORT

## DETERMINATION OF BULK DENSITY - IMMERSION IN FLUID METHOD

Tested in Accordance with: BS EN ISO 17892-2: 2014: Clause 5.2

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



Environmental Science

4041

Client: Robert E Fry & Associates Ltd

Client Address:  
45 Bridgeman Terrace, WN1 1TT

Contact: Hollie Marengo

Site Address: Liverpool Road, Hutton

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

Client Reference: 24182

Job Number: 25-001418-1

Date Sampled: 09/01/2025

Date Received: 15/01/2025

Date Tested: 28/01/2025

Sampled By: Not Given

### Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Bulk density Mg/m3	Dry density Mg/m3	WC %	Preparation		
		Reference	Depth Top m	Depth Base m	Type								
424248	TP17	Not Given	2.40	Not Given	D	Brownish grey slightly gravelly CLAY	2.17	1.89	14.8				
424247	WS03	Not Given	1.60	Not Given	D	Brownish grey CLAY	2.14	1.86	15.2				

Note: WC - Water Content by BS EN ISO 17892-1:2014+A1:2022, BS-1377:2022

Comments:

Signed:

Katarzyna Koziel  
Geotechnical Reporting Team Leader  
for and on behalf of i2 Analytical Ltd

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