

APPENDIX F



TEST REPORT

Client Robert E Fry & Associates Ltd (REFA)

Address 45 Bridgeman Terrace
Wigan
WN1 1TT

Contract 18038 –
Arthurs Lane, Hambleton

Job Number MRN 3242/10
Date of Issue 04 April 2018
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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. This does not, however, guarantee the balance of the materials from which the tested samples have been taken to be of equal quality.



MURRAY RIX

33C Vauxhall Ind. Estate, Greg Street
 Reddish, Stockport SK5 7BR
 TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3

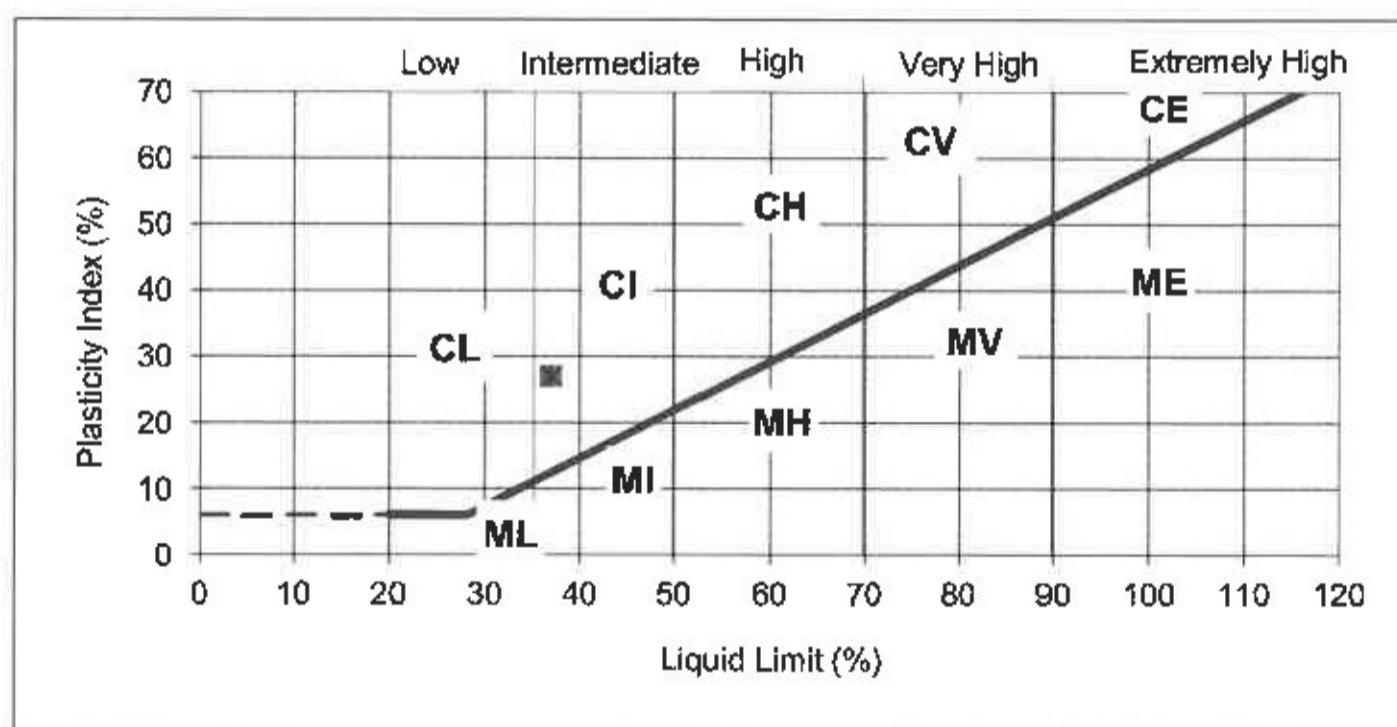
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP05 2.0m	DATE SAMPLED	Not advised
SAMPLE No.	75893	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown silty very sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
9.5	37	10	27	51



REMARKS

Sample tested after wet sieving

SIGNED



NAME

O.P. Davies

DATE

04-Apr-18

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(Deputy Laboratory Manager)

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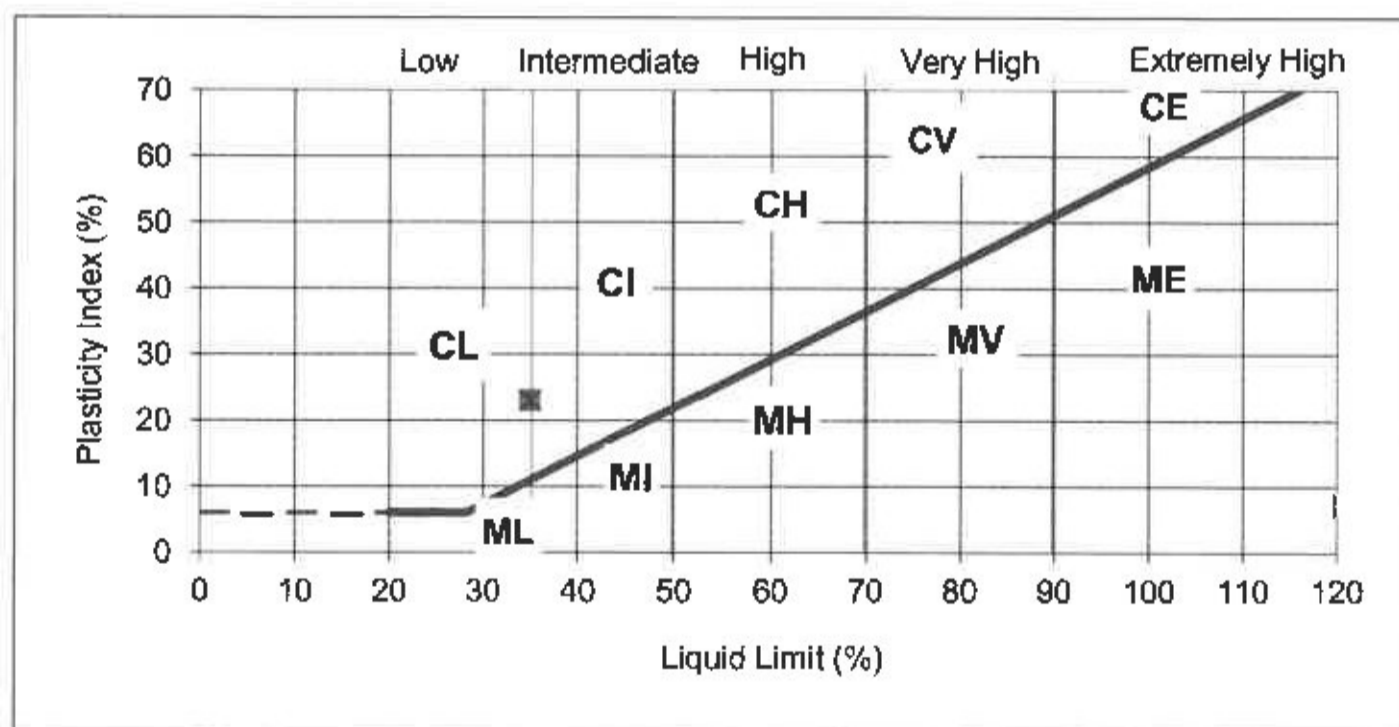
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)		
SITE	18038 - Arthurs Lane, Hambleton		
JOB NUMBER	MRN 3242/10		

SAMPLE LABEL	TP06 1.5m	DATE SAMPLED	Not advised
SAMPLE No.	75894	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty very sandy CLAY with rare gravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
17	35	12	23	70



REMARKS

Sample tested after wet sieving

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NAME

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O.P. Davies

(Deputy Laboratory Manager)

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04-Apr-18

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LIQUID AND PLASTIC LIMIT

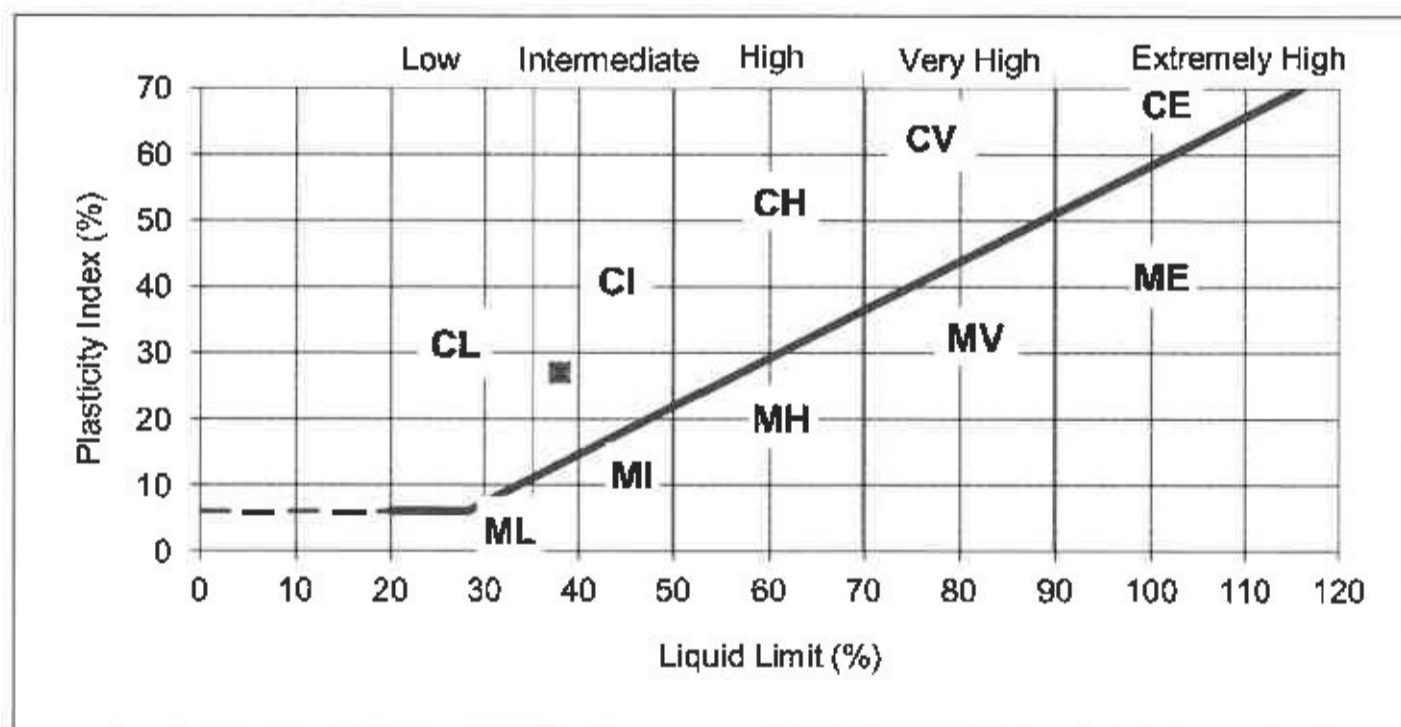
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP08 2.0m	DATE SAMPLED	Not advised
SAMPLE No.	75895	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown silty very sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

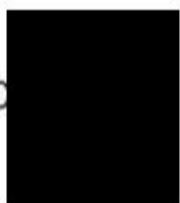
Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13	38	11	27	68



REMARKS

Sample tested after wet sieving

SIGNED



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O.P. Davies

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(Deputy Laboratory Manager)

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LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3

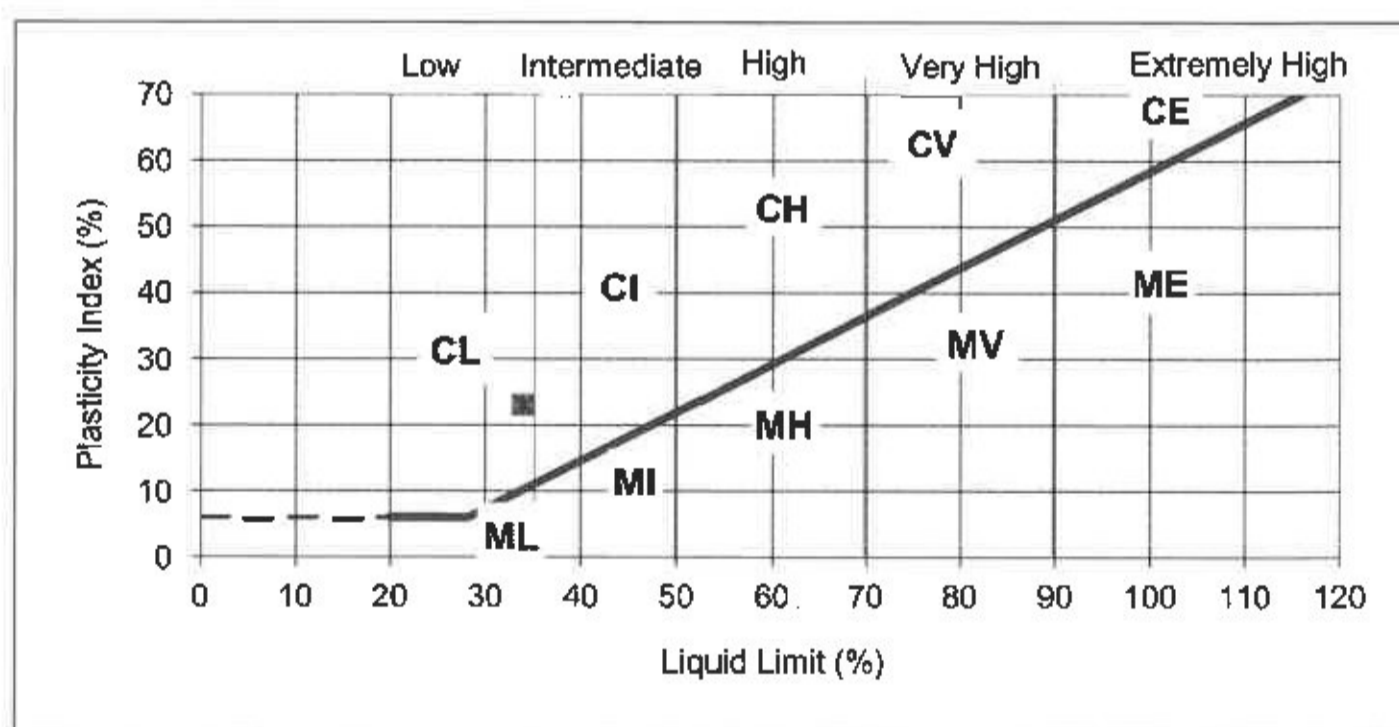
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP09 1.0m	DATE SAMPLED	Not advised
SAMPLE No.	75896	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15	34	11	23	69



REMARKS

Sample tested after wet sieving

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(Deputy Laboratory Manager)

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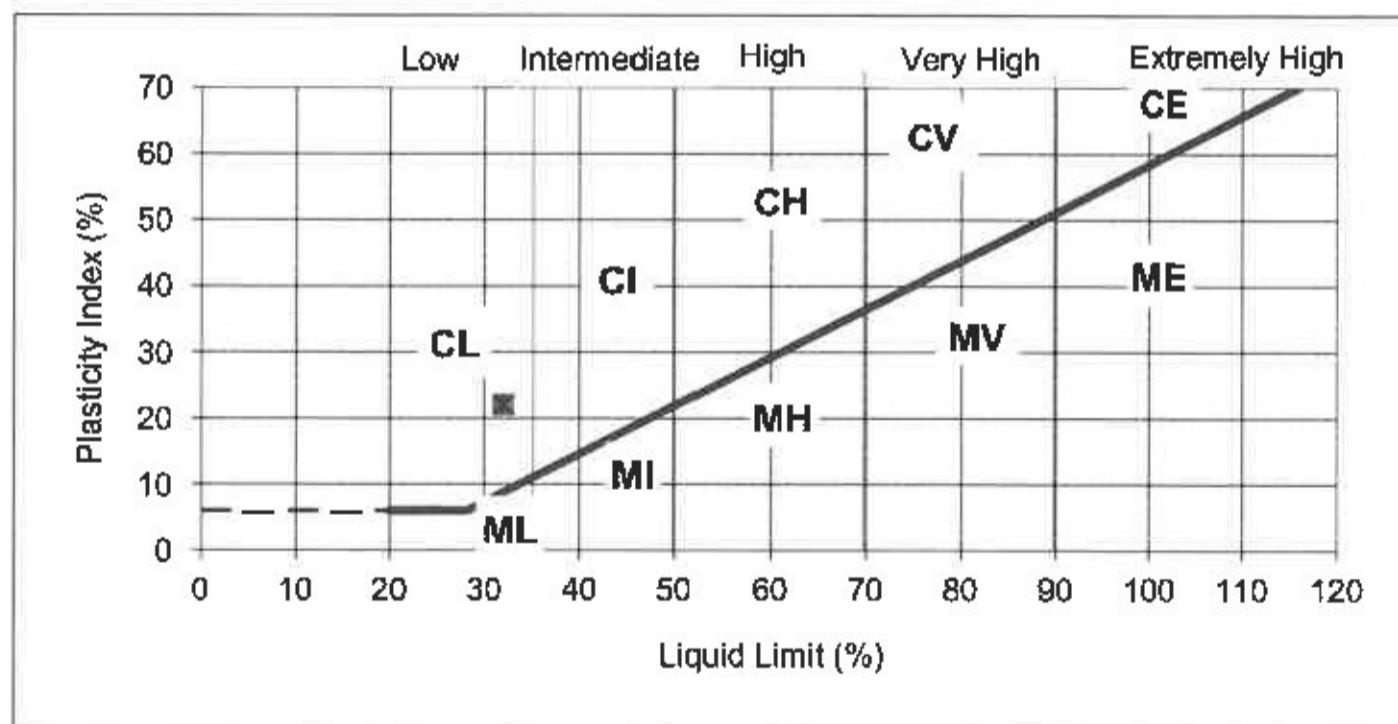
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP10 1.5m	DATE SAMPLED	Not advised
SAMPLE No.	75897	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13	32	10	22	65



REMARKS

Sample tested after wet sieving

SIGNED



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O.P. Davies
 (Deputy Laboratory Manager)

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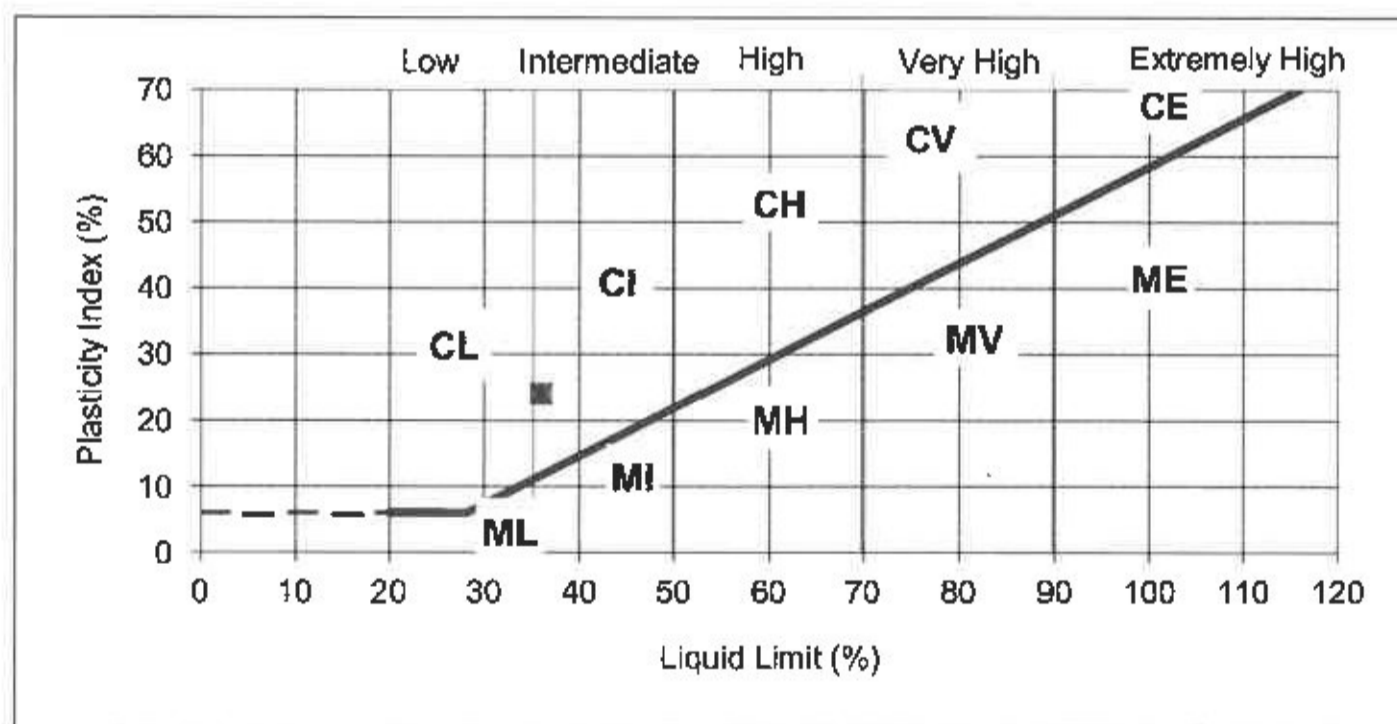
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)		
SITE	18038 - Arthurs Lane, Hambleton		
JOB NUMBER	MRN 3242/10		

SAMPLE LABEL	TP10 2.3m	DATE SAMPLED	Not advised
SAMPLE No.	75898	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown silty sandy CLAY with occasional gravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13	36	12	24	71



REMARKS

Sample tested after wet sieving

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(Deputy Laboratory Manager)

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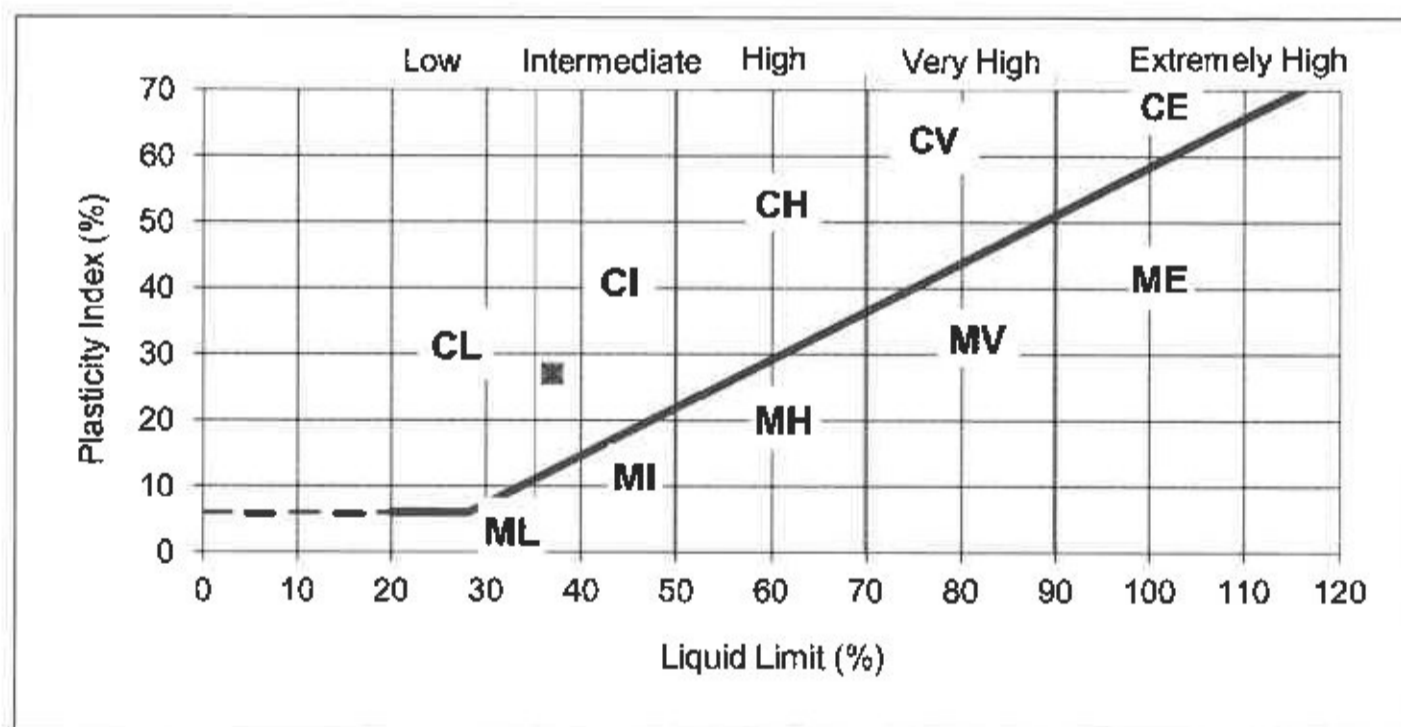
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP11 2.0m	DATE SAMPLED	Not advised
SAMPLE No.	75899	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14	37	10	27	70



REMARKS

Sample tested after wet sieving

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(Deputy Laboratory Manager)

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LIQUID AND PLASTIC LIMIT

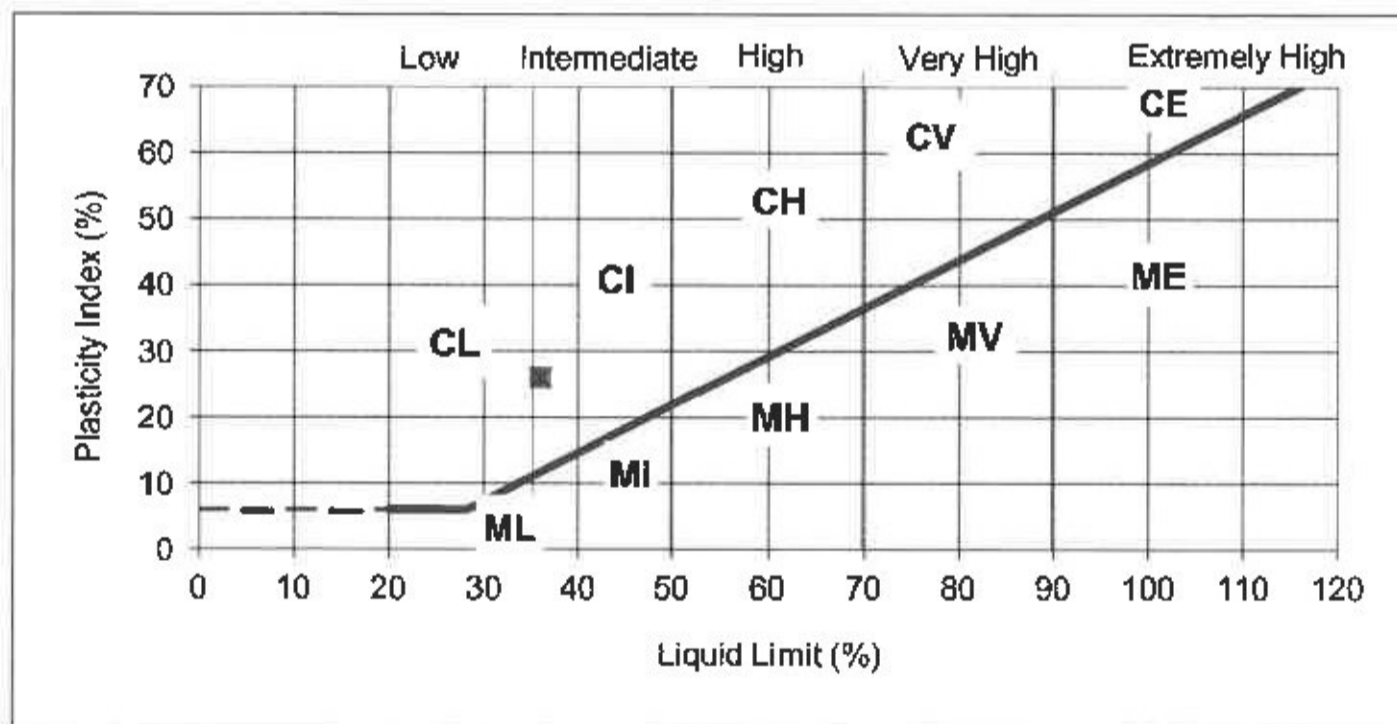
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP12 2.5m	DATE SAMPLED	Not advised
SAMPLE No.	75900	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13	36	10	26	68



REMARKS

Sample tested after wet sieving

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(Deputy Laboratory Manager)

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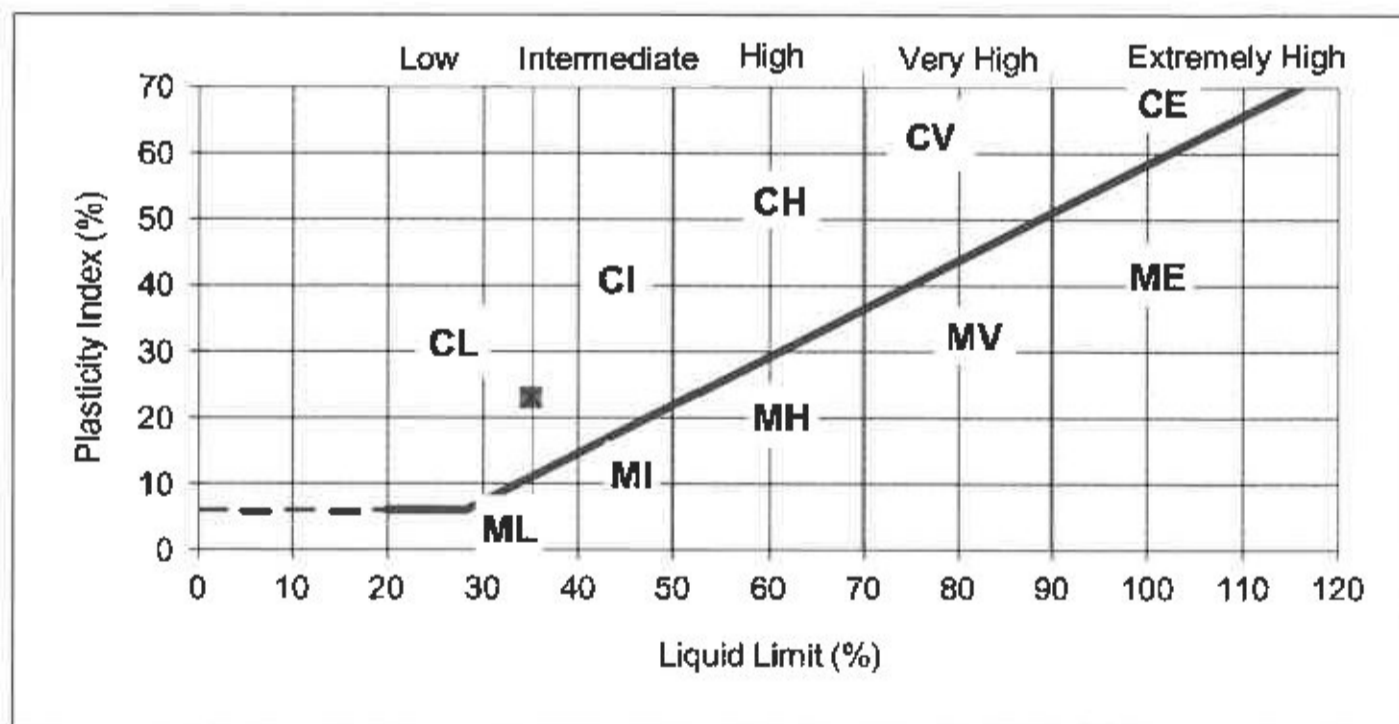
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)		
SITE	18038 - Arthurs Lane, Hambleton		
JOB NUMBER	MRN 3242/10		

SAMPLE LABEL	TP15 1.0m	DATE SAMPLED	Not advised
SAMPLE No.	75901	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
21	35	12	23	69



REMARKS

Sample tested after wet sieving

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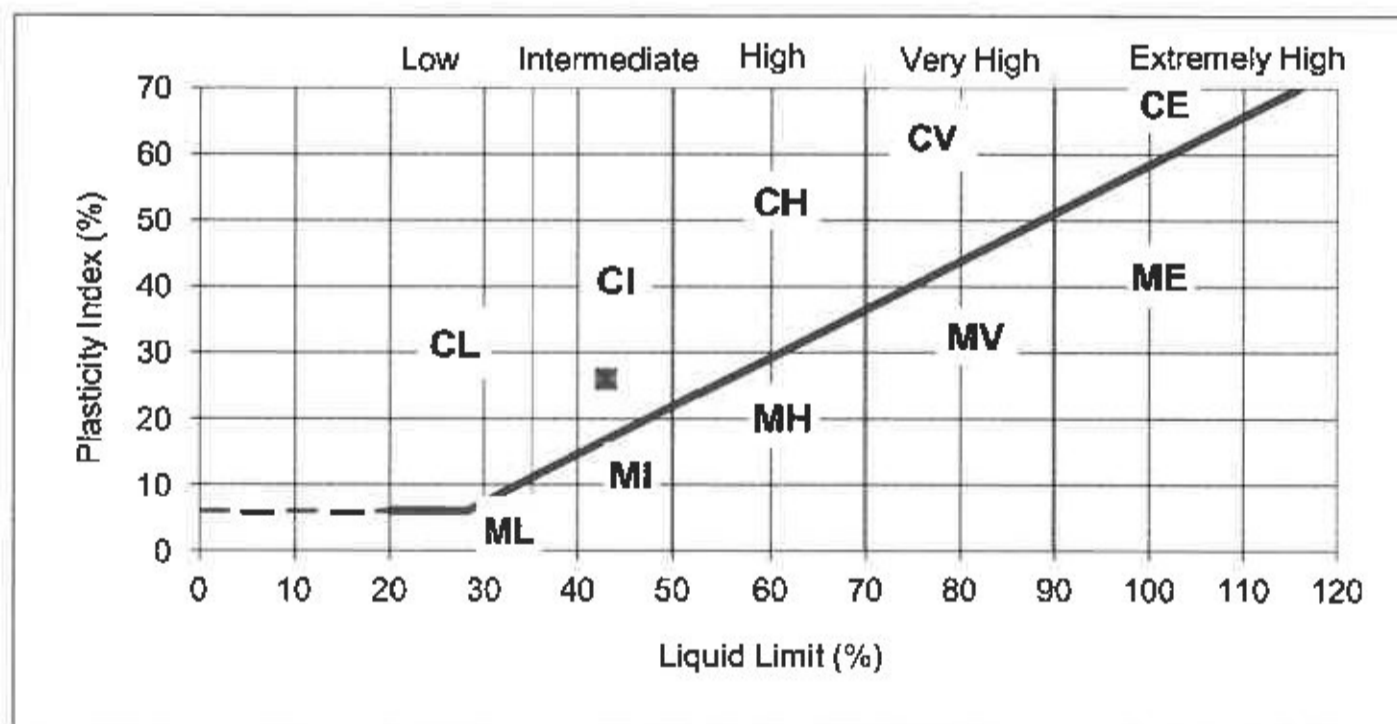
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)		
SITE	18038 - Arthurs Lane, Hambleton		
JOB NUMBER	MRN 3242/10		

SAMPLE LABEL	TP23 1.5m	DATE SAMPLED	Not advised
SAMPLE No.	75902	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown grey mottled silty sandy CLAY with rare gravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
24	43	17	26	87



REMARKS

Sample tested in natural condition

SIGNED



NAME

O.P. Davies

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(Deputy Laboratory Manager)

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LIQUID AND PLASTIC LIMIT

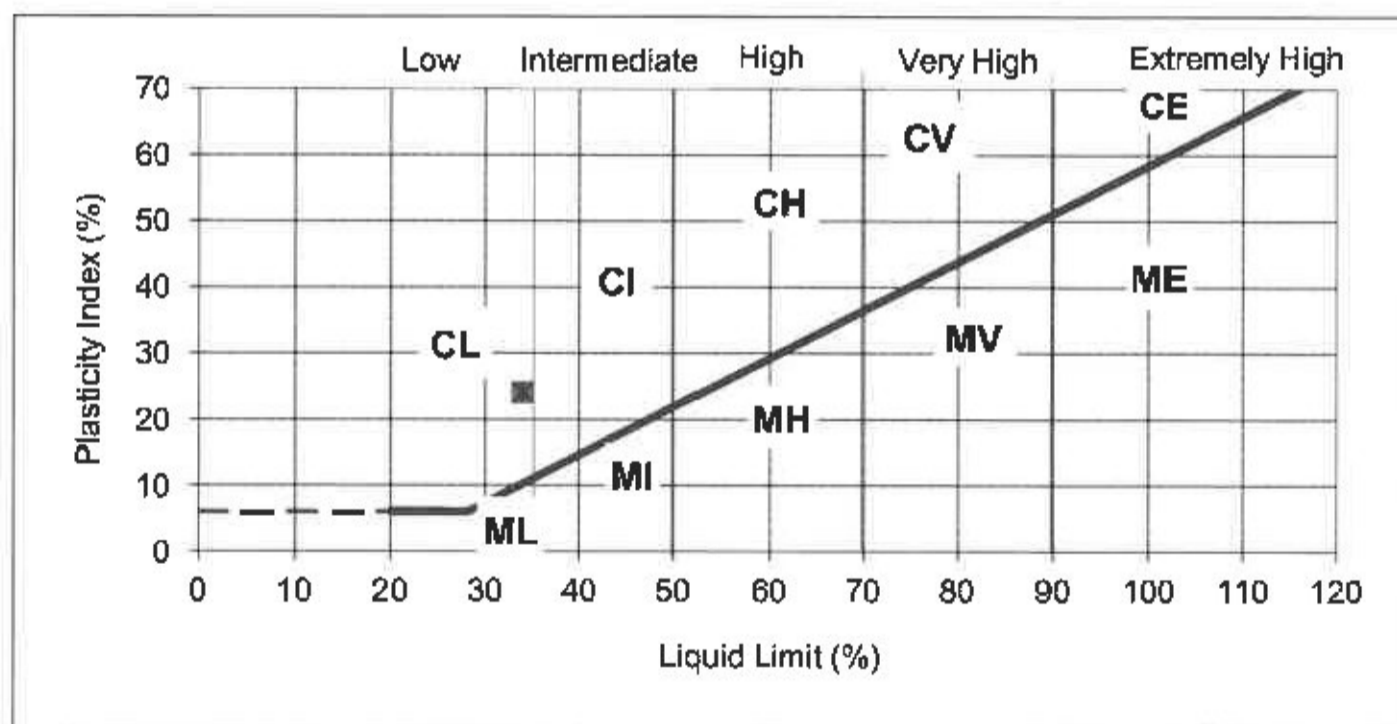
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP25 2.5m	DATE SAMPLED	Not advised
SAMPLE No.	75903	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown silty sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13	34	10	24	70



REMARKS

Sample tested after wet sieving

SIGNED

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O.P. Davies

(Deputy Laboratory Manager)

DATE

04-Apr-18

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TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3

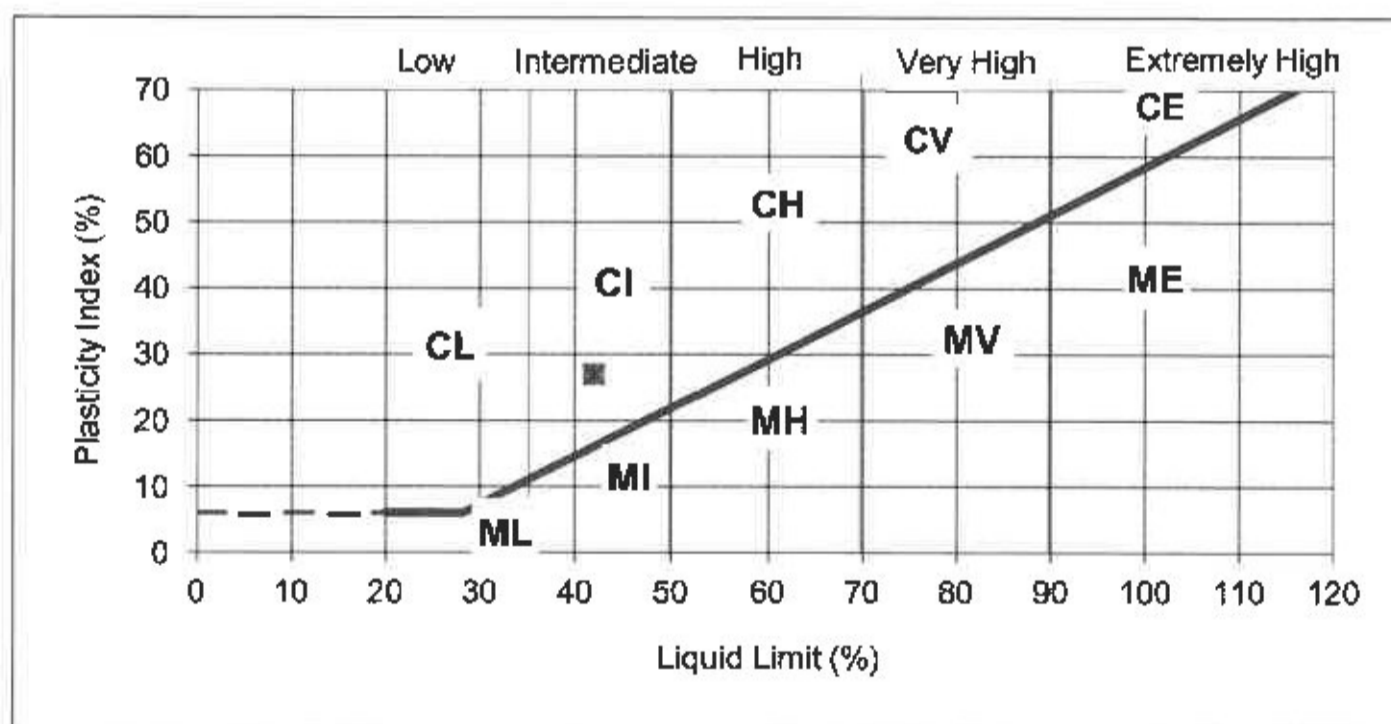
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP28 2.0m	DATE SAMPLED	Not advised
SAMPLE No.	75904	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown grey mottled silty sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
22	42	15	27	90



REMARKS

Sample tested in natural condition

SIGNED



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(Deputy Laboratory Manager)

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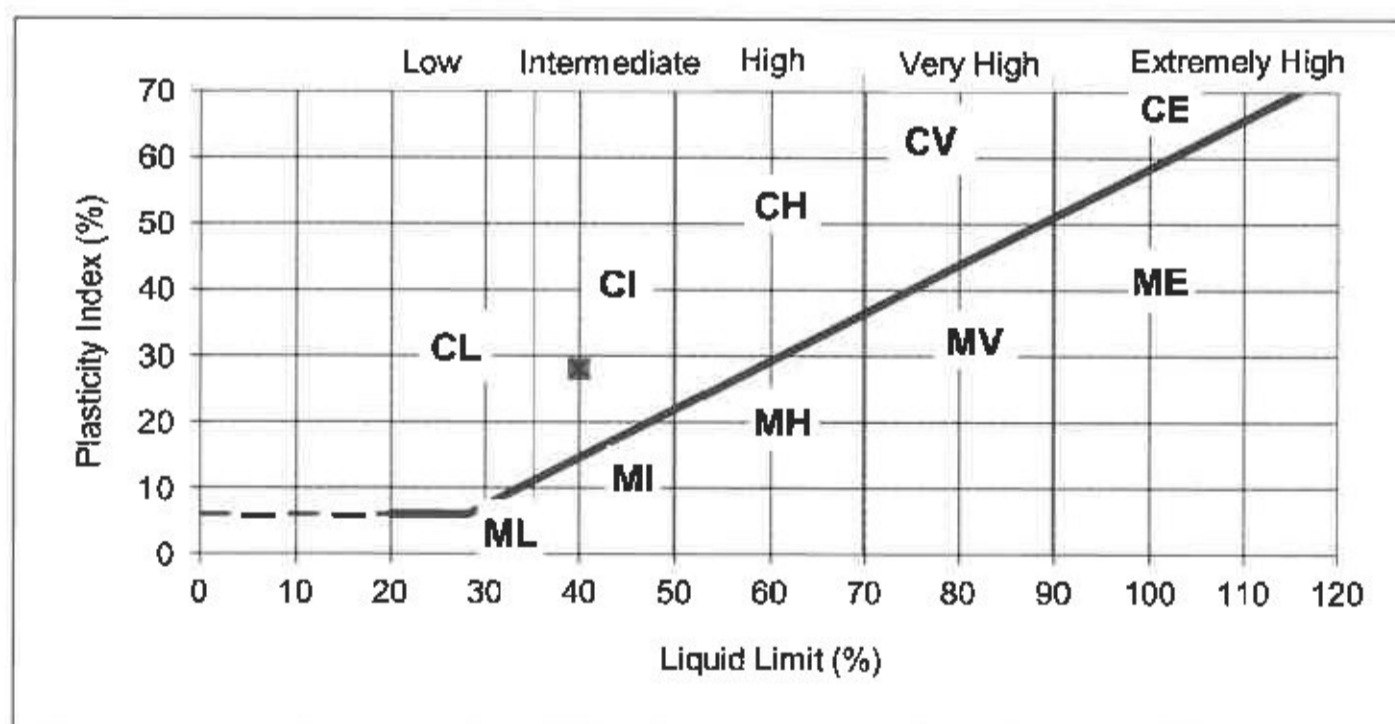
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP31 2.3m	DATE SAMPLED	Not advised
SAMPLE No.	75905	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff brown silty very sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15	40	12	28	59



REMARKS

Sample tested after wet sieving

SIGNED

NAME

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O.P. Davies

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04-Apr-18

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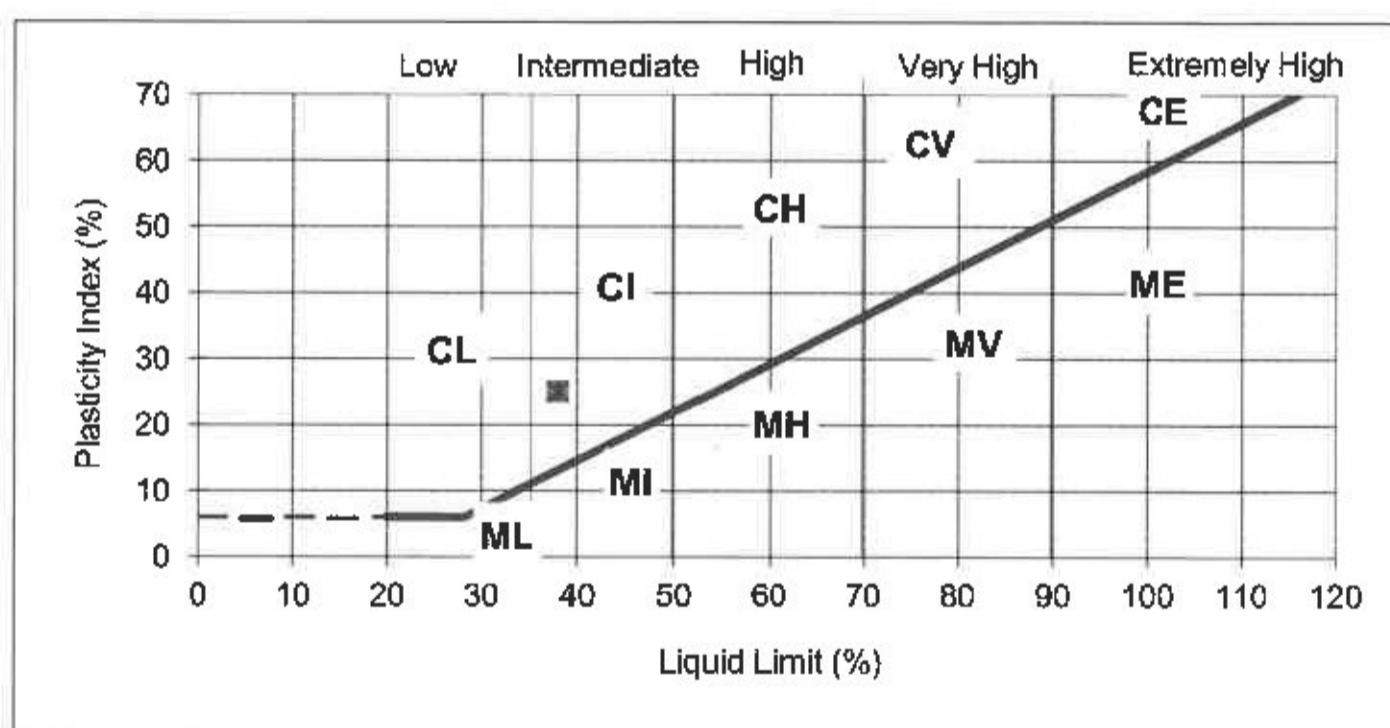
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP34 1.5m	DATE SAMPLED	Not advised
SAMPLE No.	75906	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Stiff orange green brown mottled silty very sandy CLAY with frequent gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14	38	13	25	40



REMARKS

Sample tested after wet sieving

SIGNED

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O.P. Davies

(Deputy Laboratory Manager)

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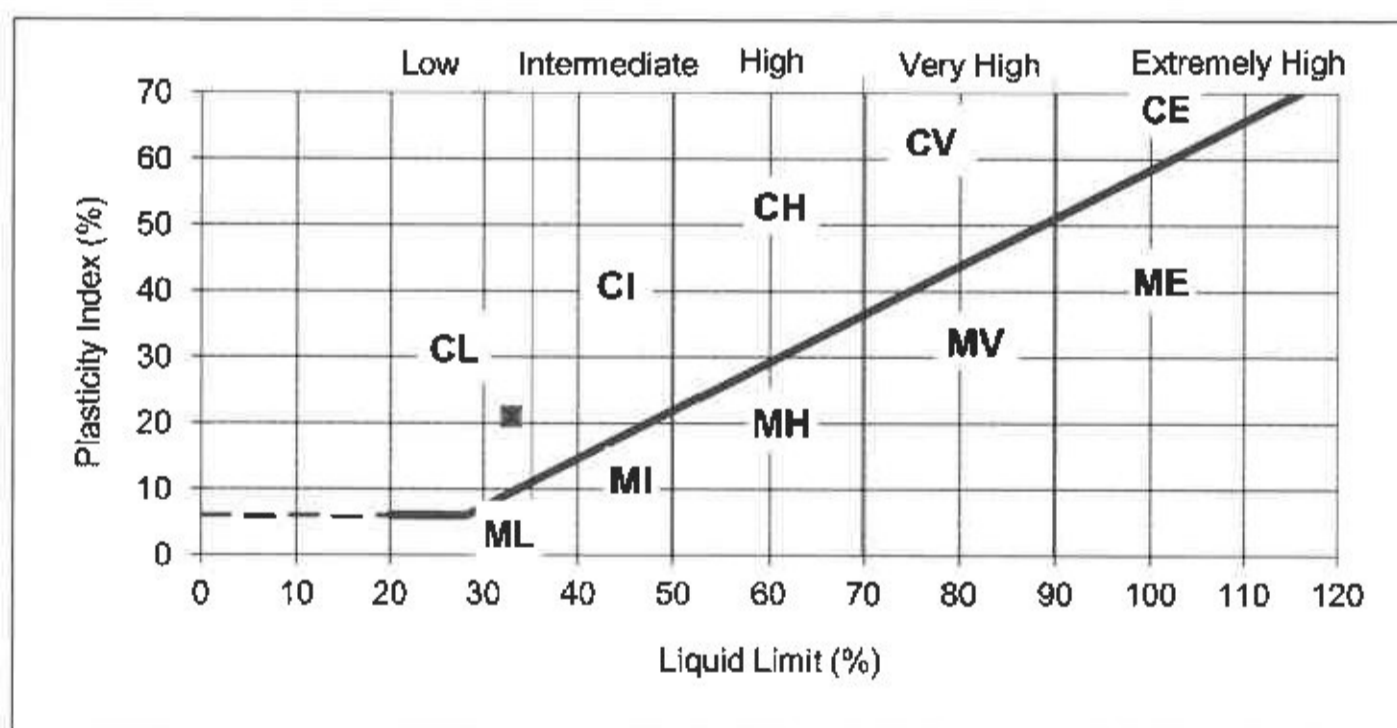
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP36 1.0m	DATE SAMPLED	Not advised
SAMPLE No.	75907	DATE RECEIVED	26-Mar-18
DATE TESTED	28-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
16	33	12	21	72



REMARKS

Sample tested after wet sieving

SIGNED



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O.P. Davies
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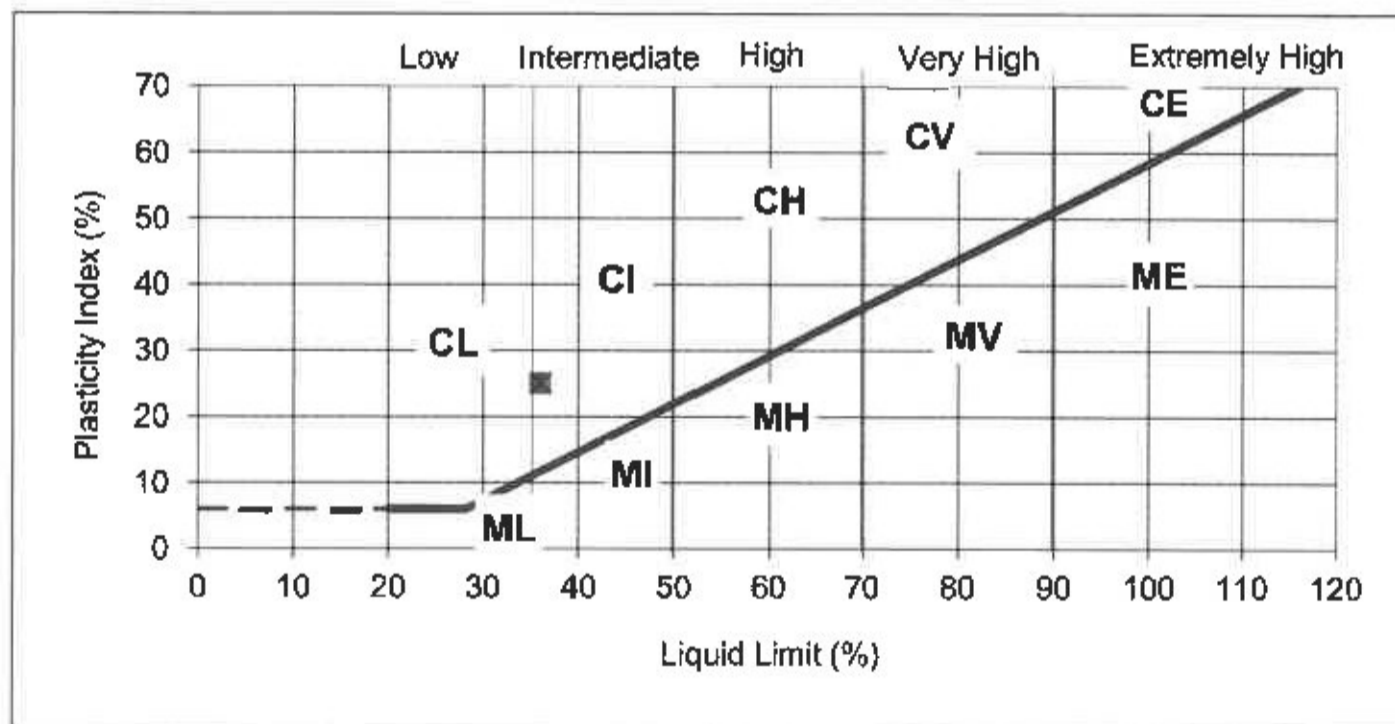
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	Robert E Fry & Associates Ltd (REFA)
SITE	18038 - Arthurs Lane, Hambleton
JOB NUMBER	MRN 3242/10

SAMPLE LABEL	TP05 1.0m	DATE SAMPLED	Not advised
SAMPLE No.	75892	DATE RECEIVED	26-Mar-18
DATE TESTED	27-Mar-18	SAMPLED BY	Client

MATERIAL	Firm brown silty very sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15	36	11	25	67



REMARKS

Sample tested after wet sieving

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