



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. TP69

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, orangish brown and light grey slightly sandy silty CLAY with rare fmc mudstone fragments

Depth Base m -

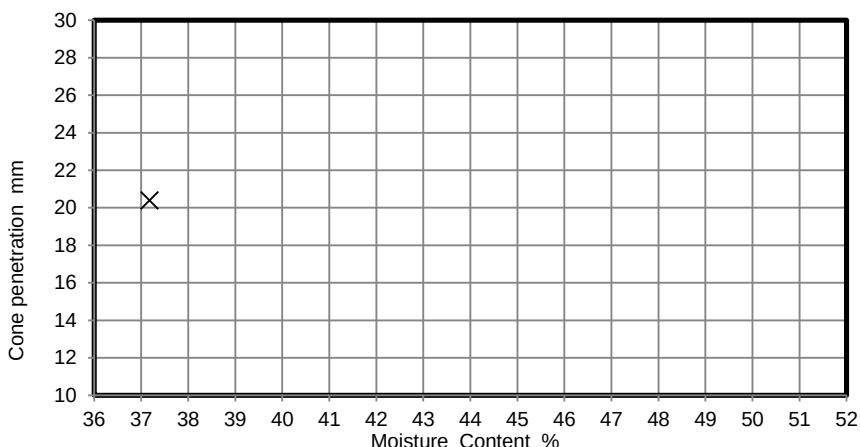
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

90

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

20

%

PLASTICITY INDEX

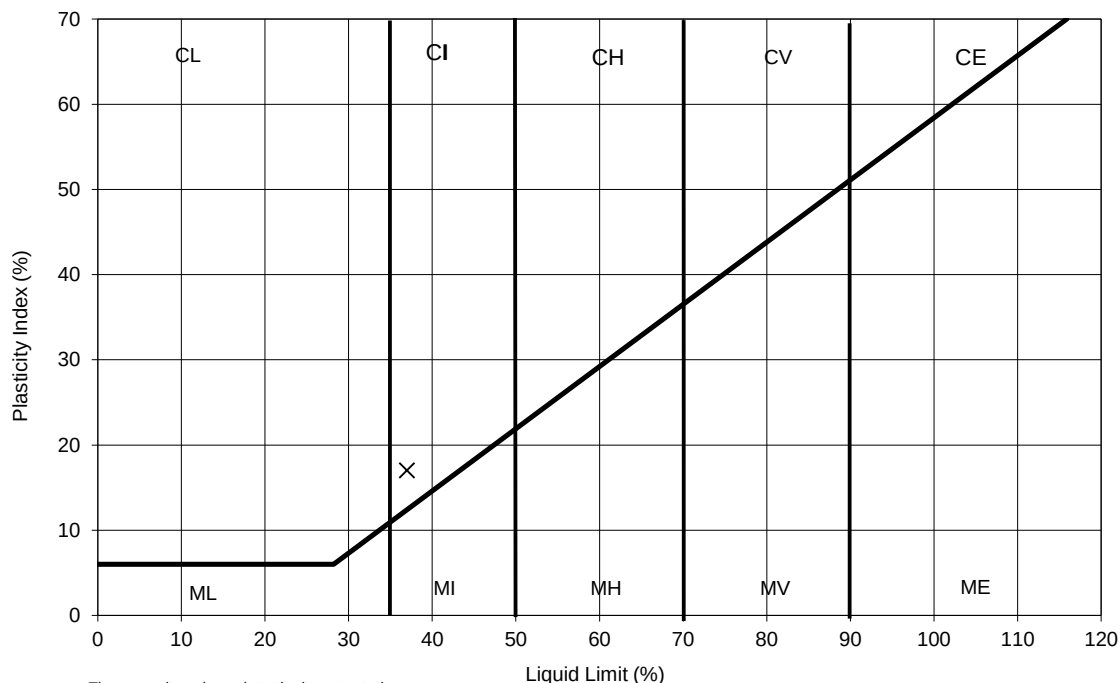
17

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

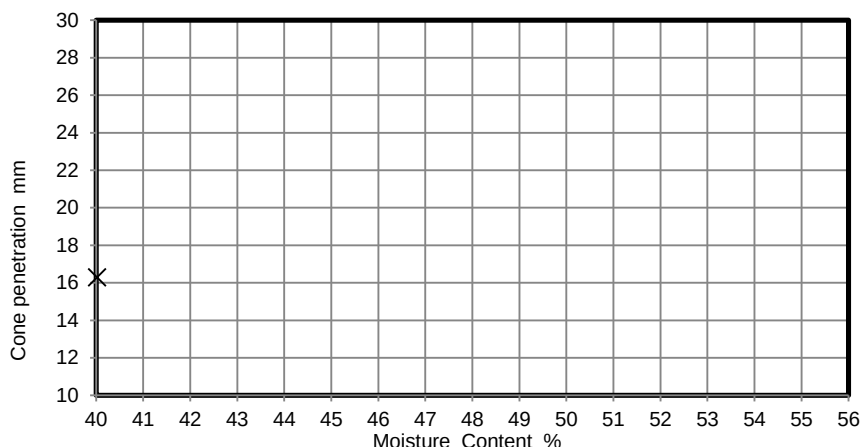
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873		
	Borehole/Pit No.		
Sample No.	1		
Depth Top m	0.50		
Depth Base m	-		
Sample Type	D		
Samples received	17/05/2022		
Schedules received	16/05/2022		
Project Started	17/05/2022		
Date Tested	29/07/2022		

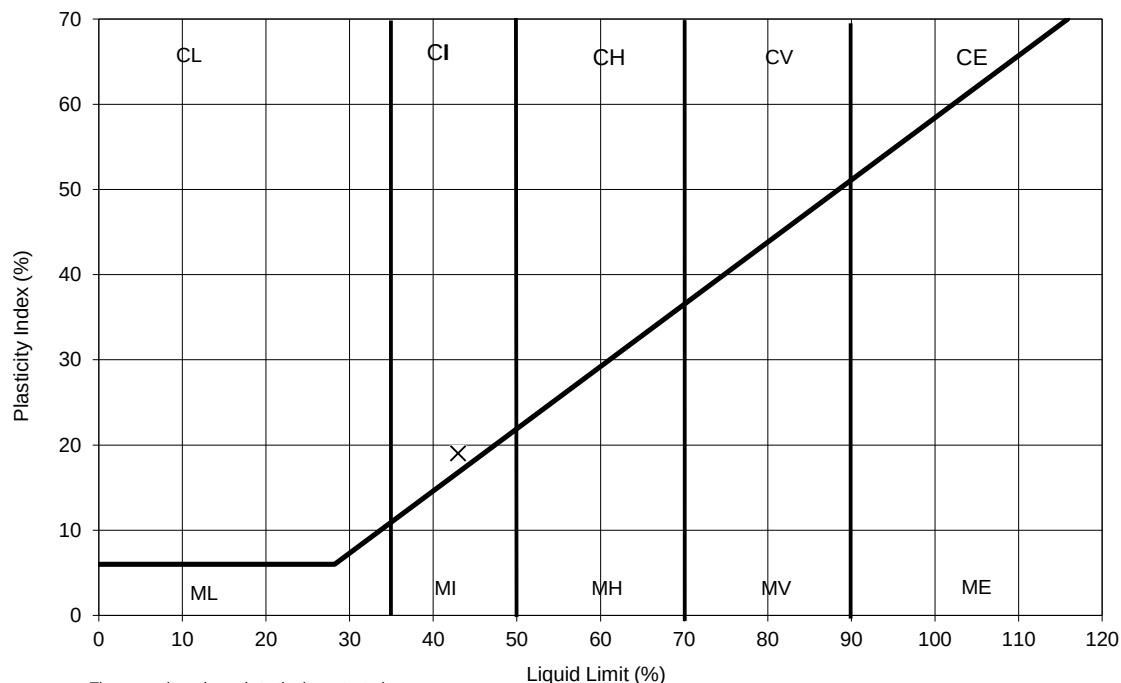


NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	97	%
LIQUID LIMIT	43	%
PLASTIC LIMIT	24	%
PLASTICITY INDEX	19	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. TP71

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Orangish brown slightly mottled grey very silty CLAY

Depth Base m -

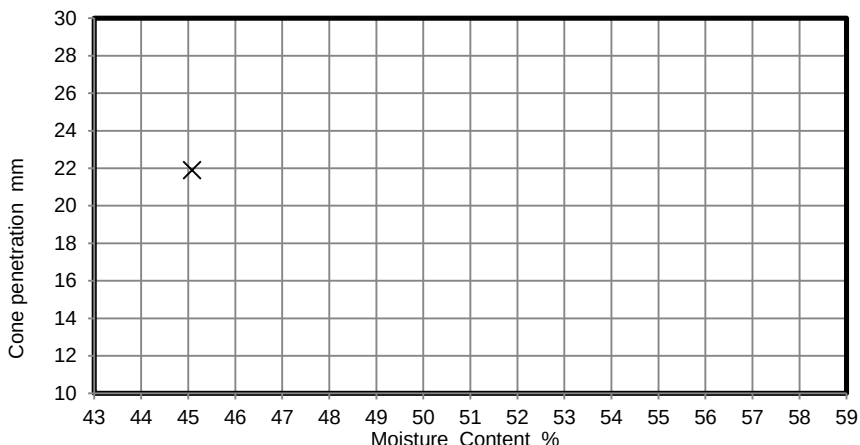
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 24/06/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

44

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

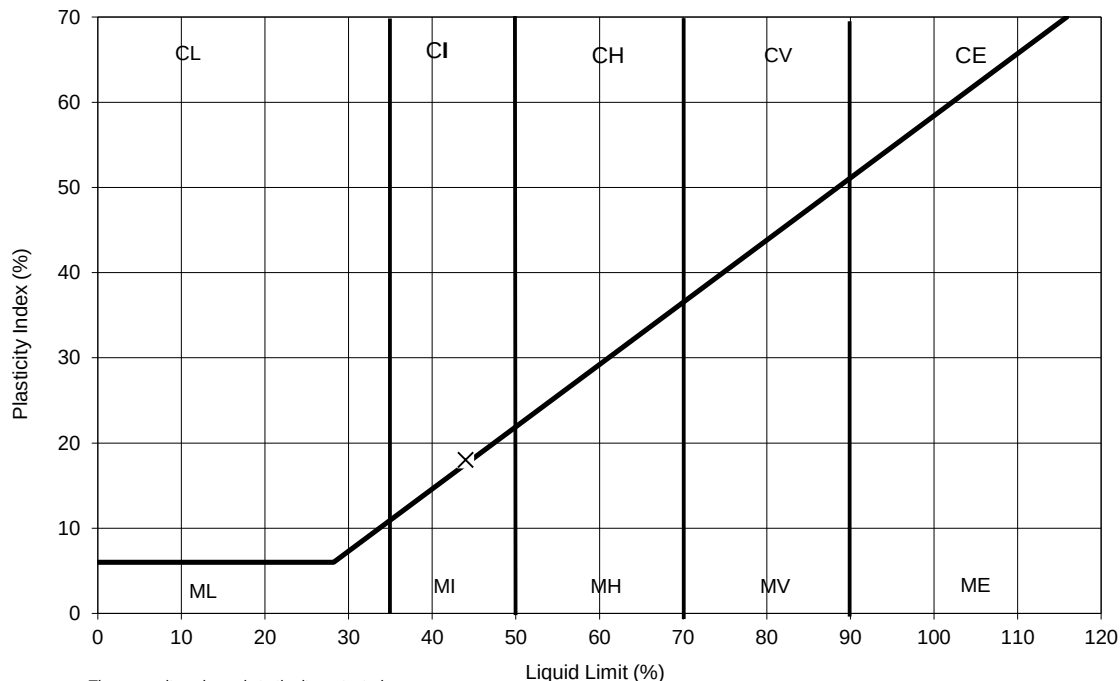
18

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS01

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown slightly mottled grey silty CLAY

Depth Base m -

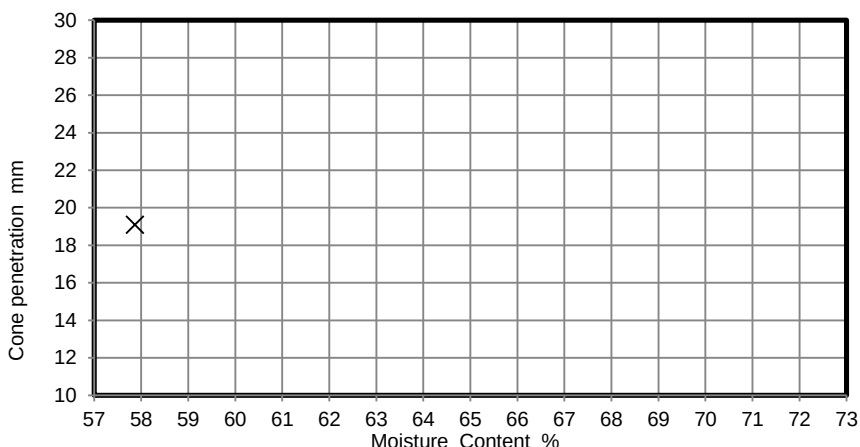
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

59

%

PLASTIC LIMIT

28

%

PLASTICITY INDEX

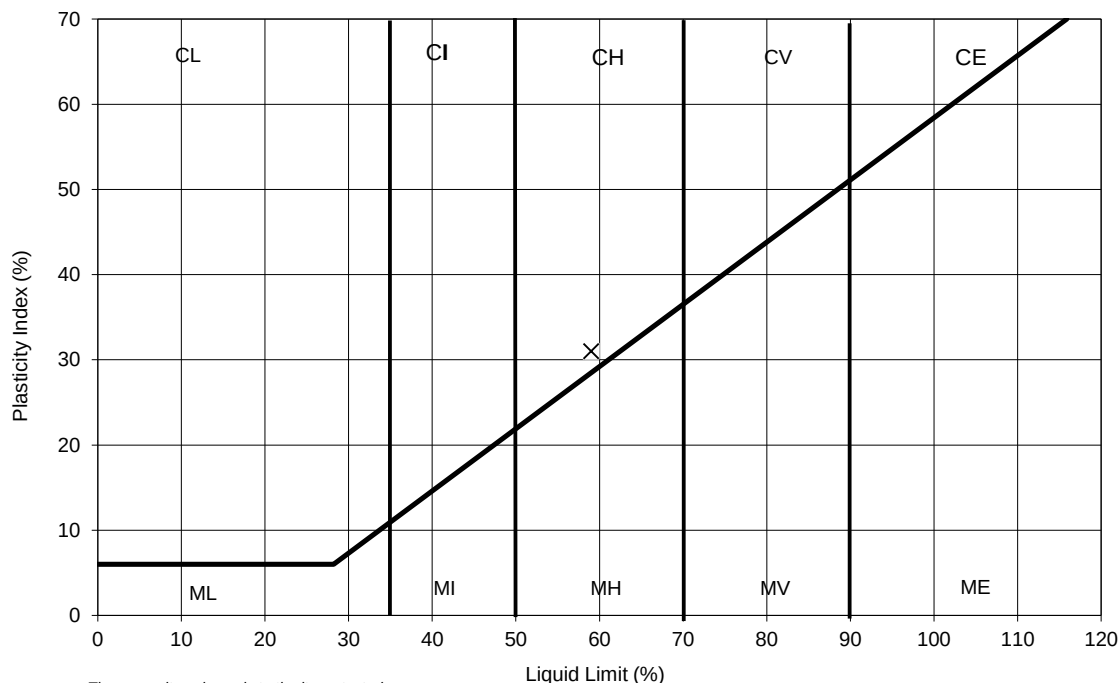
31

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS02

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown slightly mottled grey silty CLAY

Depth Base m -

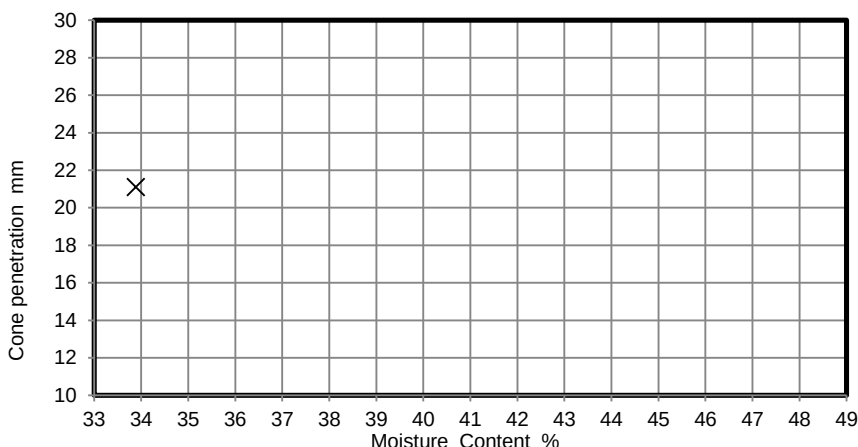
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

33

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

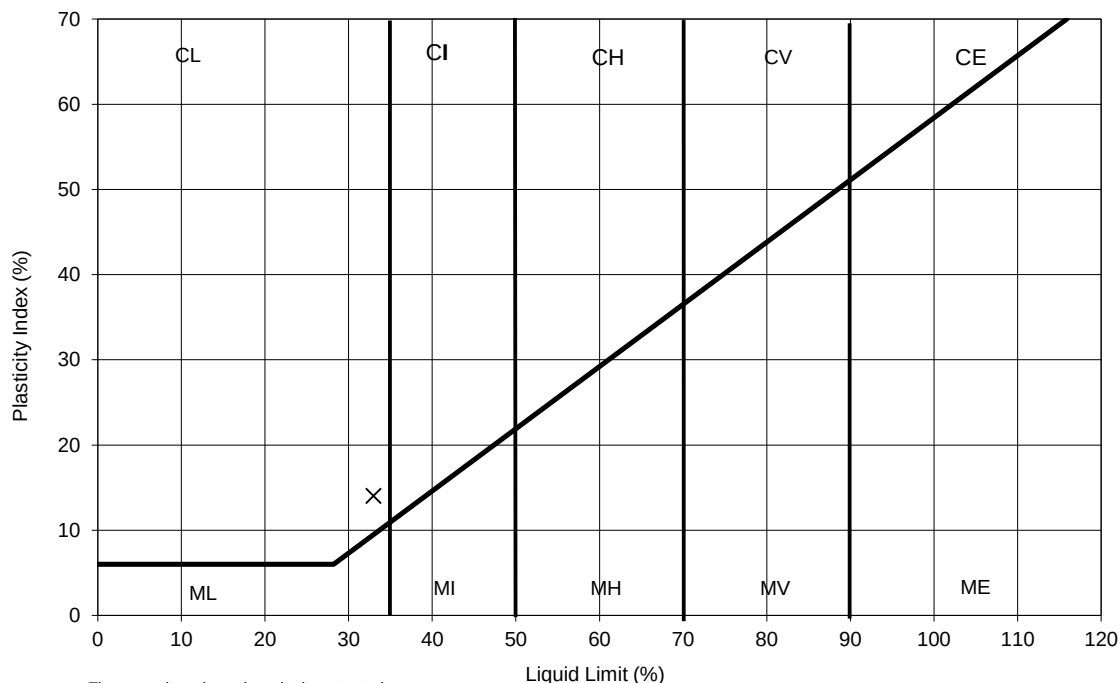
14

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS03

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Light grey slightly mottled light brown silty CLAY

Depth Base m -

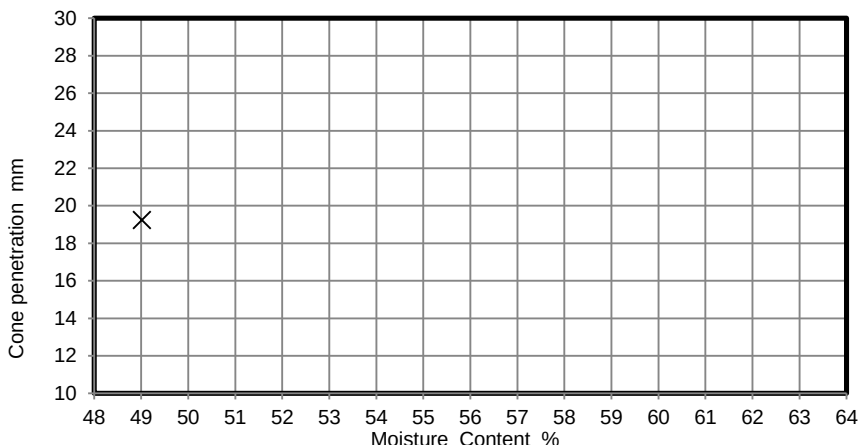
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

9.6

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

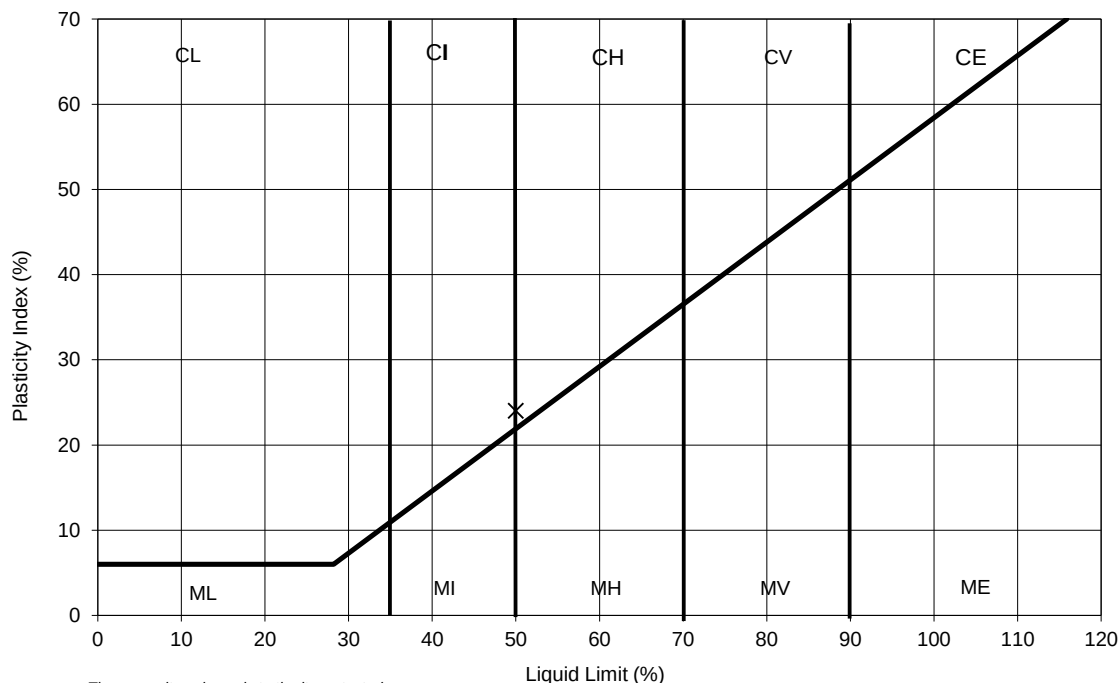
24

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS04

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and occasional dark brown slightly sandy silty CLAY

Depth Base m -

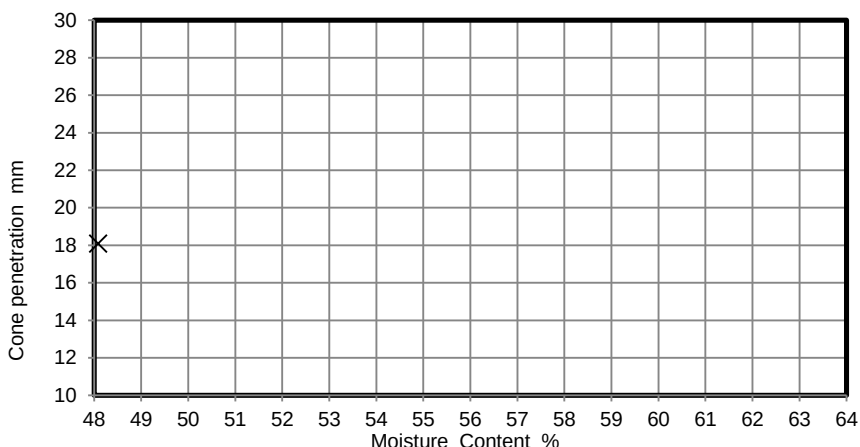
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

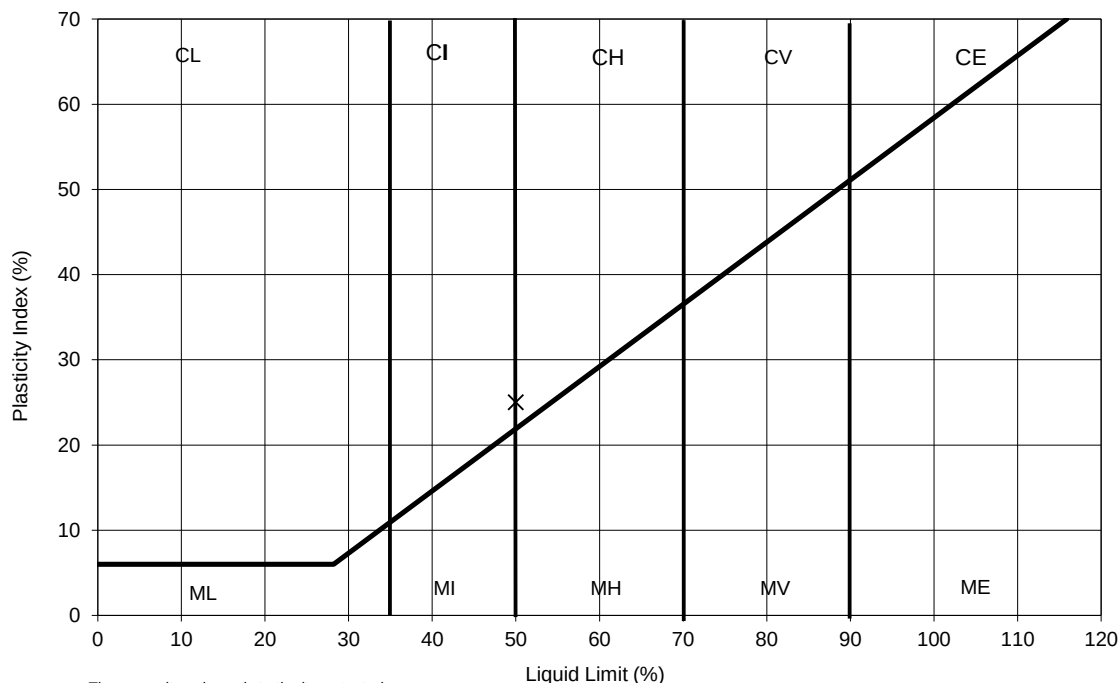
25

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS05

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Light grey and orangish brown mottled silty CLAY

Depth Base m -

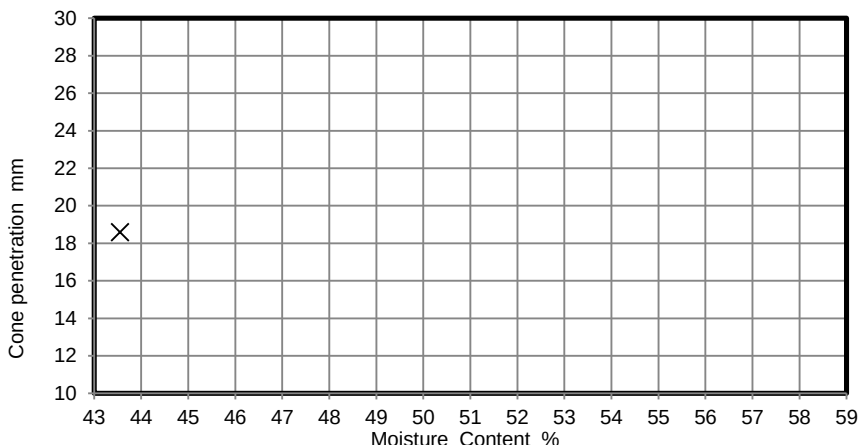
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

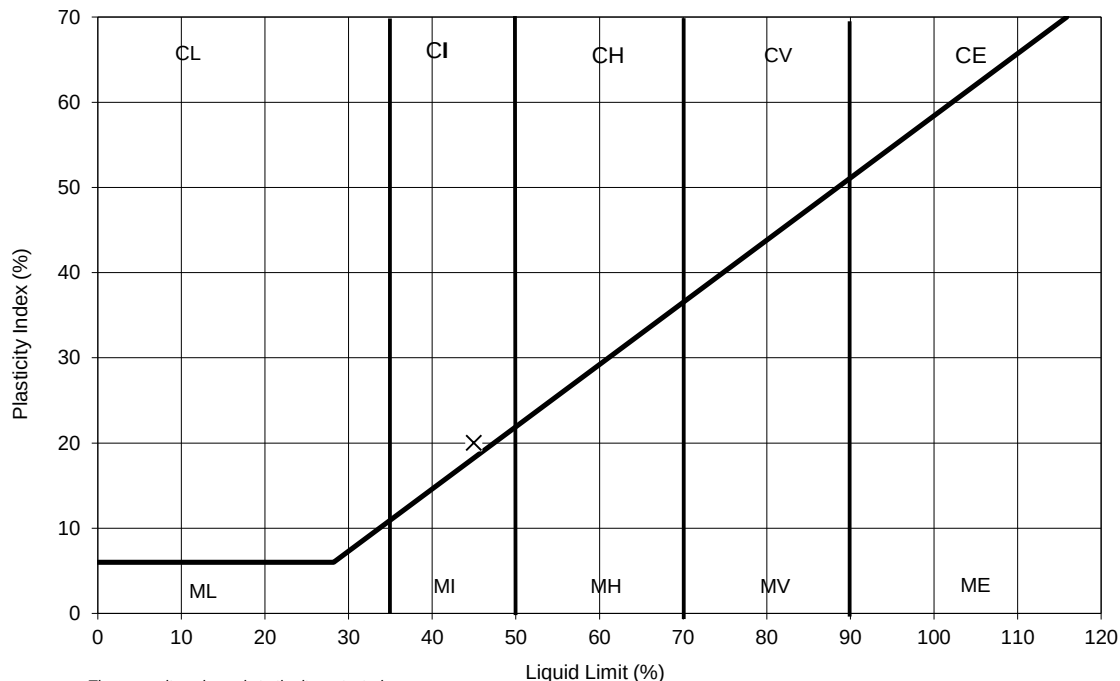
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

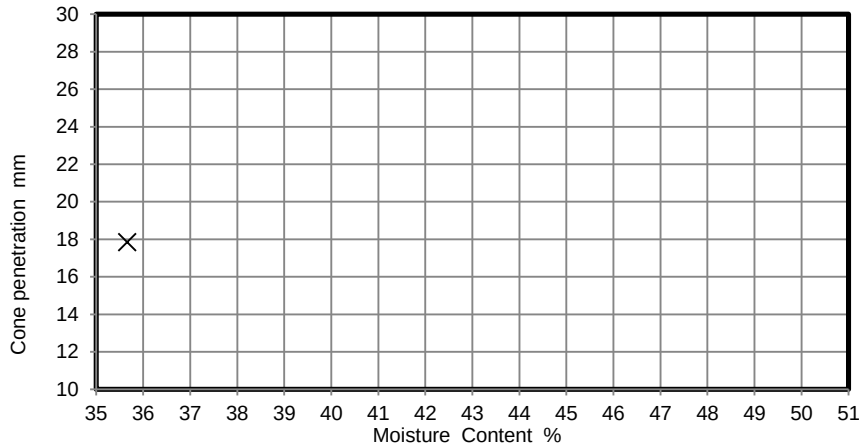
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS06
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Light brown slightly mottled bluish grey slightly sandy silty CLAY with siltstone fragments			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	28/07/2022

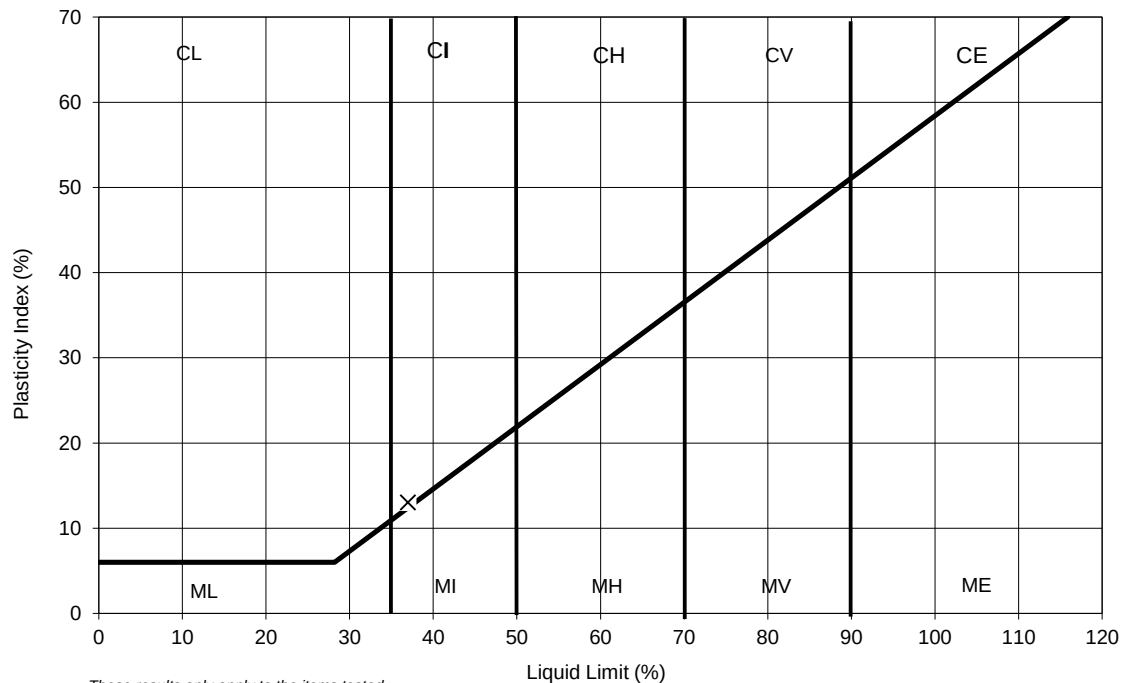


NATURAL MOISTURE CONTENT	14	%
% PASSING 425µm SIEVE	89	%
LIQUID LIMIT	37	%
PLASTIC LIMIT	24	%
PLASTICITY INDEX	13	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS07

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Grey silty CLAY with occasional orangish brown staining

Depth Base m -

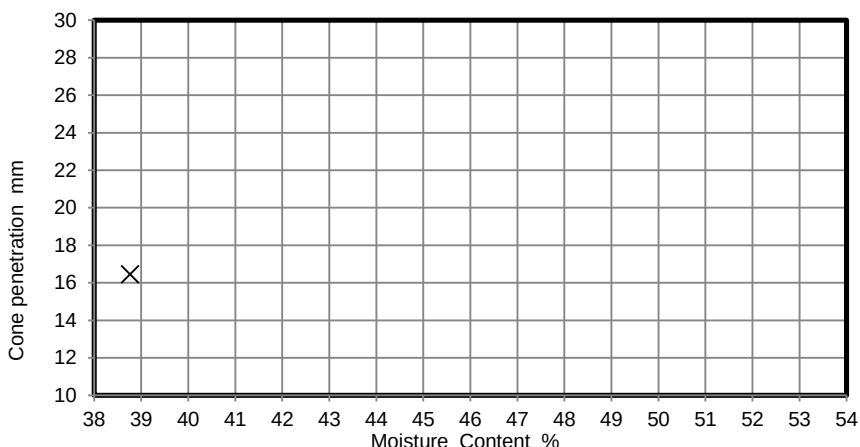
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 04/08/2022



NATURAL MOISTURE CONTENT

30

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

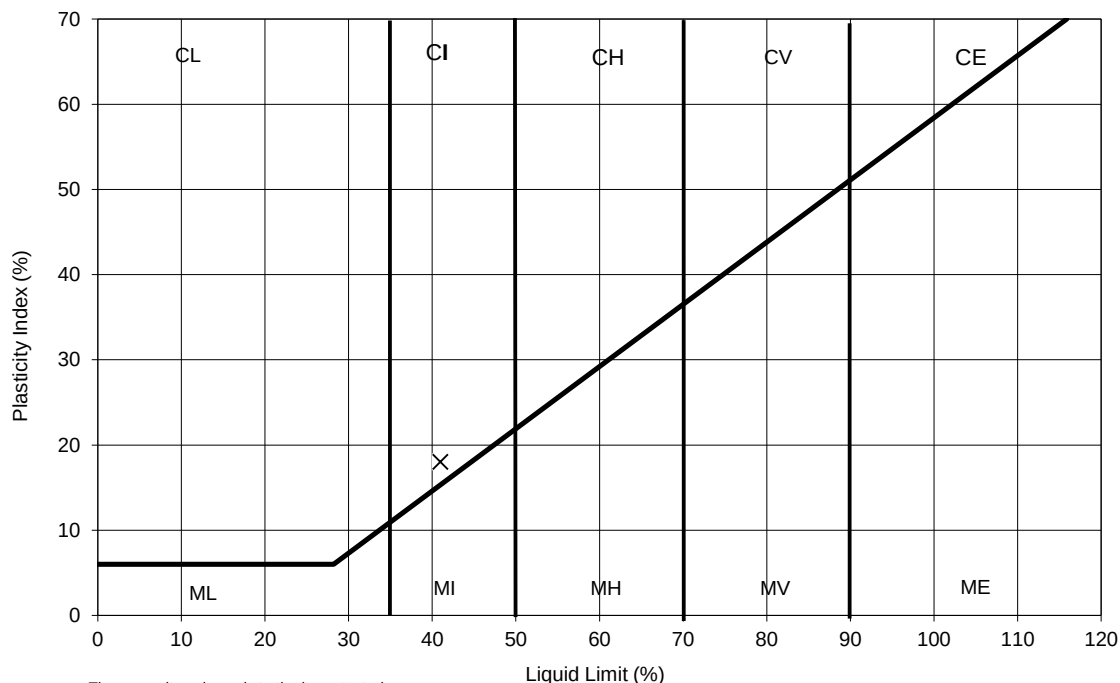
18

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS08

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and light grey silty CLAY

Depth Base m -

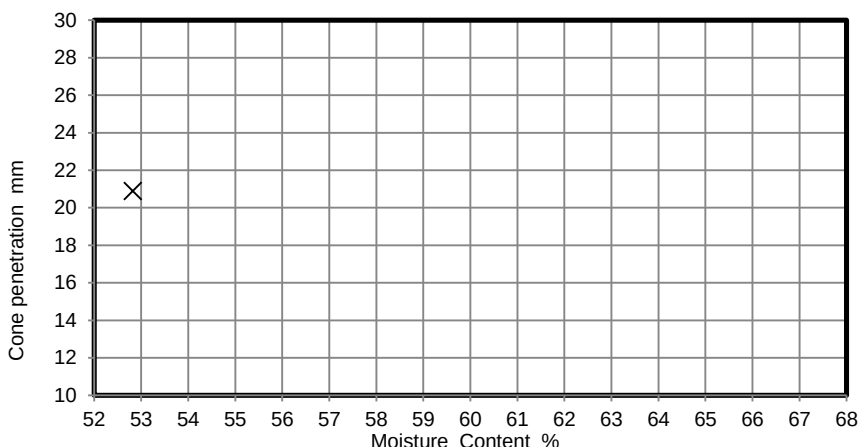
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

52

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

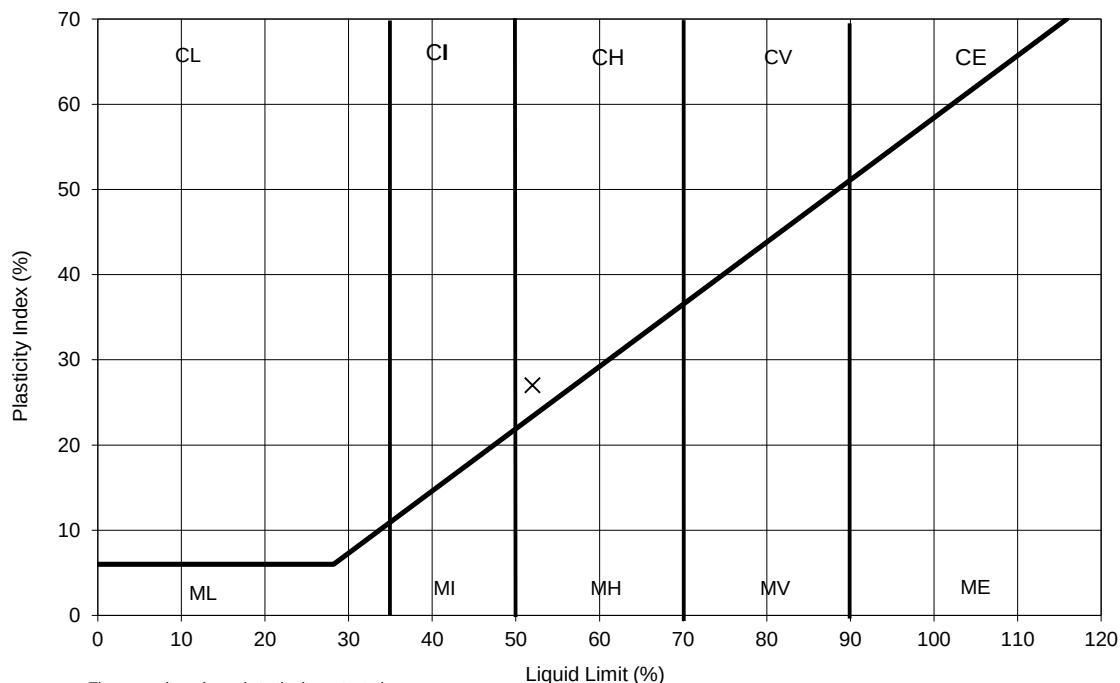
27

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS09

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, bluish grey and orangish brown silty CLAY

Depth Base m -

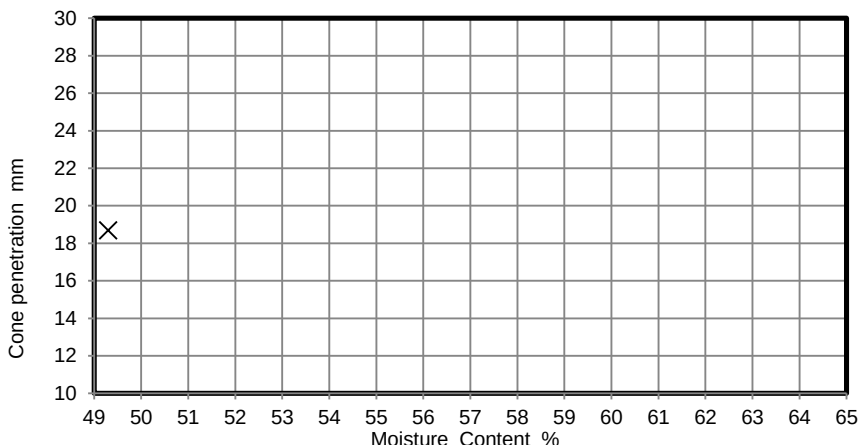
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

29

%

PLASTICITY INDEX

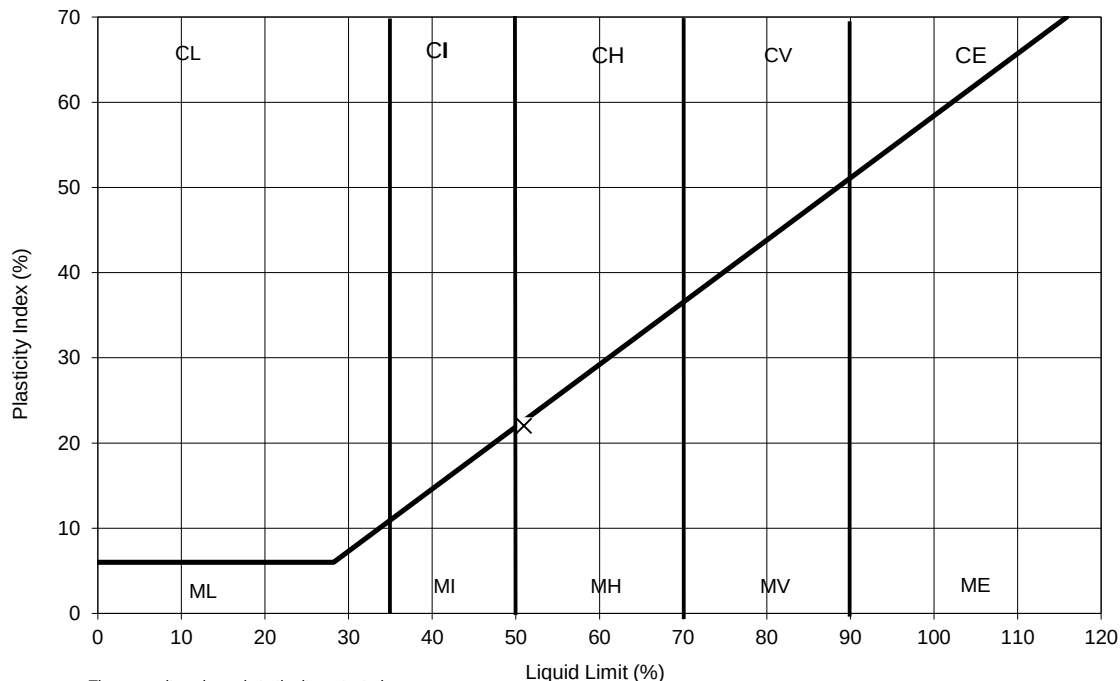
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS10

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light brown silty CLAY

Depth Base m -

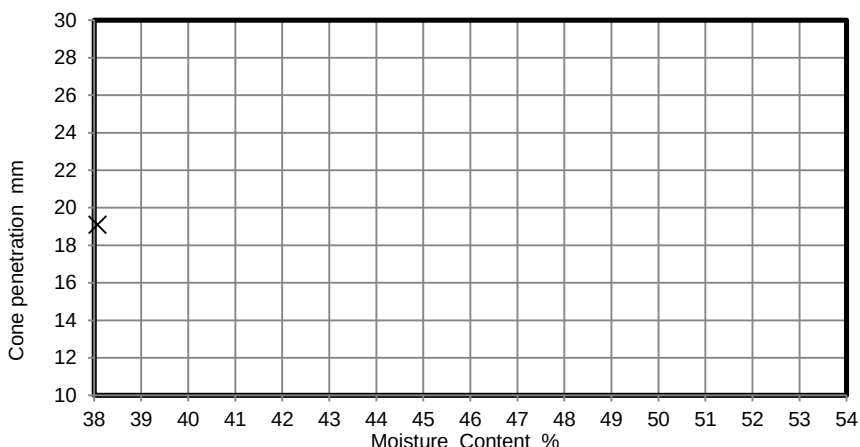
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 27/07/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

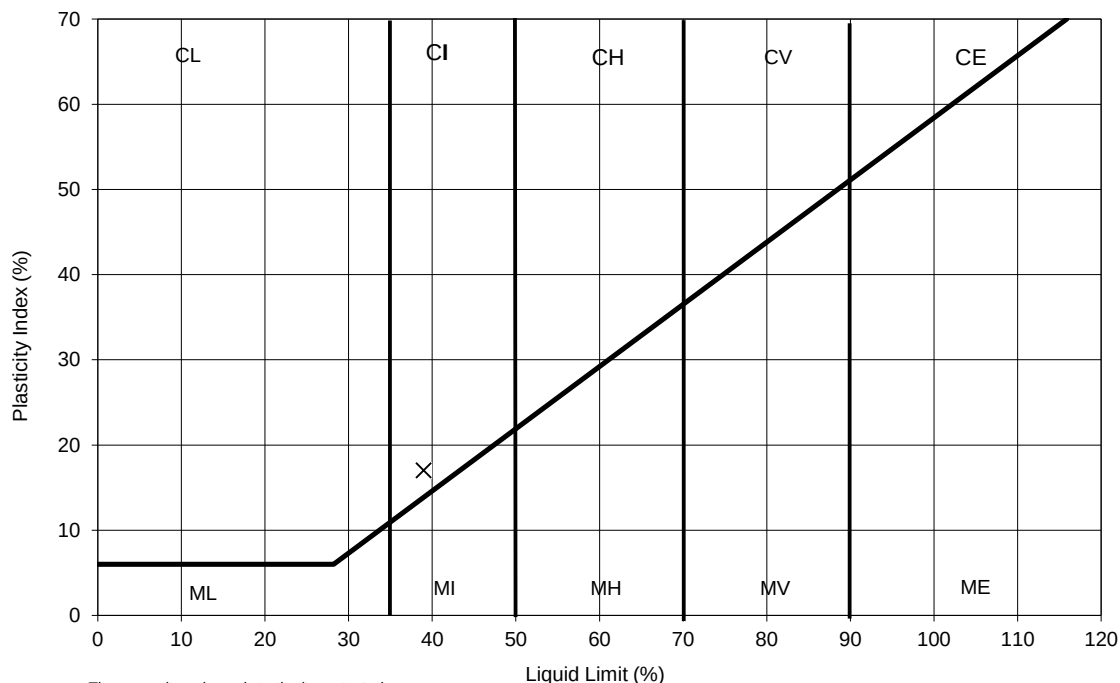
17

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS11

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey silty CLAY

Depth Base m -

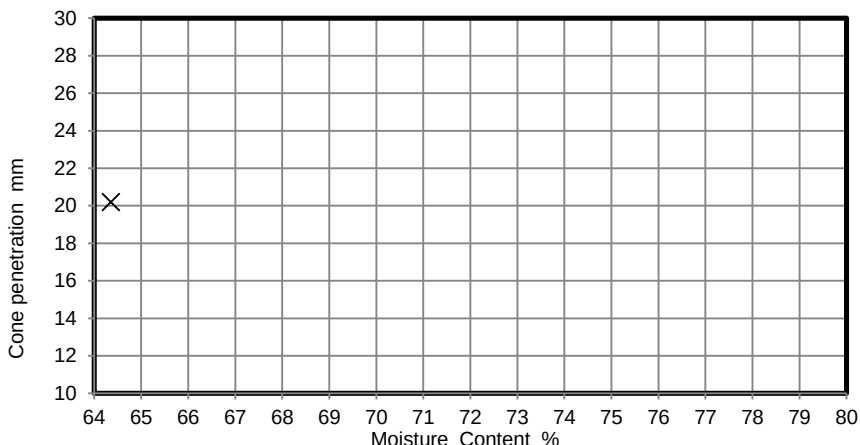
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

64

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

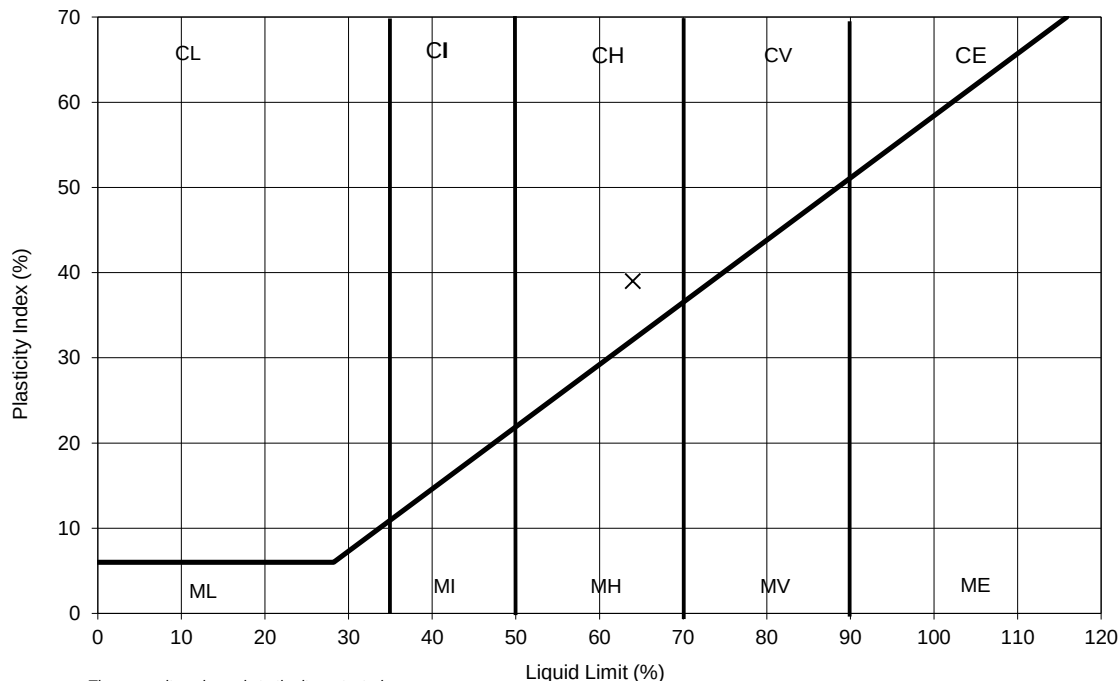
39

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS12

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Greyish brown and grey silty CLAY

Depth Base m -

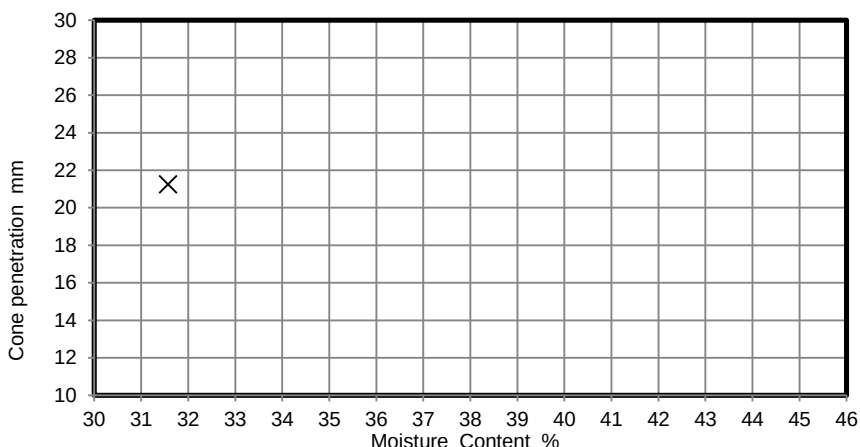
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

31

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

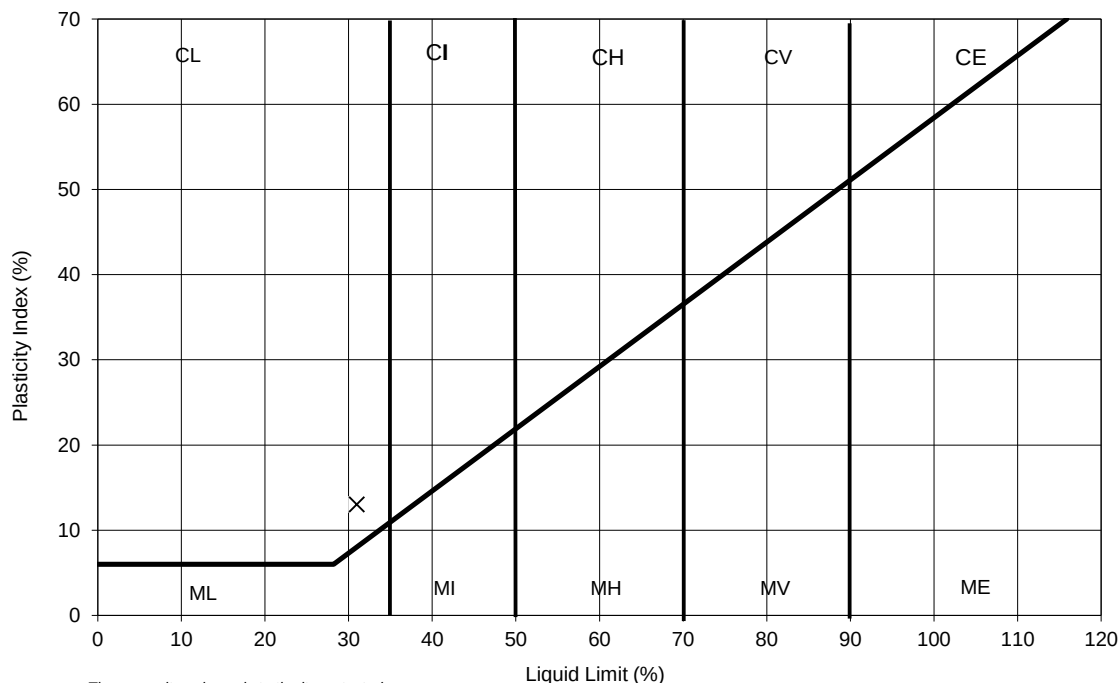
13

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS13

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light greyish brown and light orangish brown silty CLAY with rare fm mudstone fragments

Depth Base m -

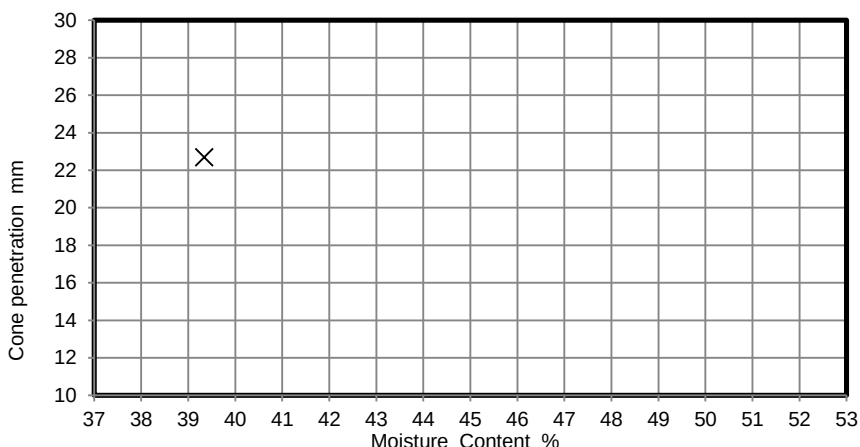
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

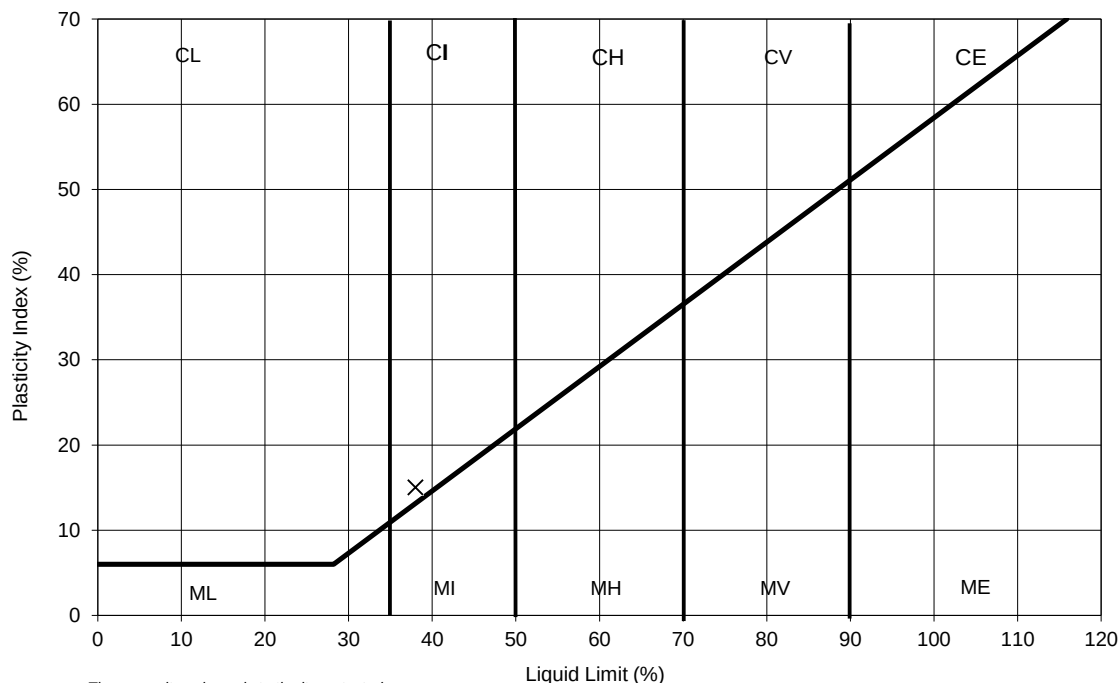
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS14

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light brown and light grey silty CLAY

Depth Base m -

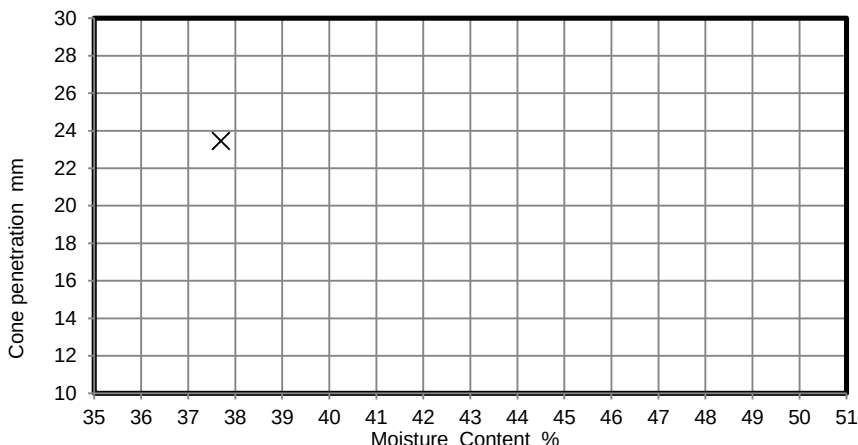
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 27/07/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

36

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

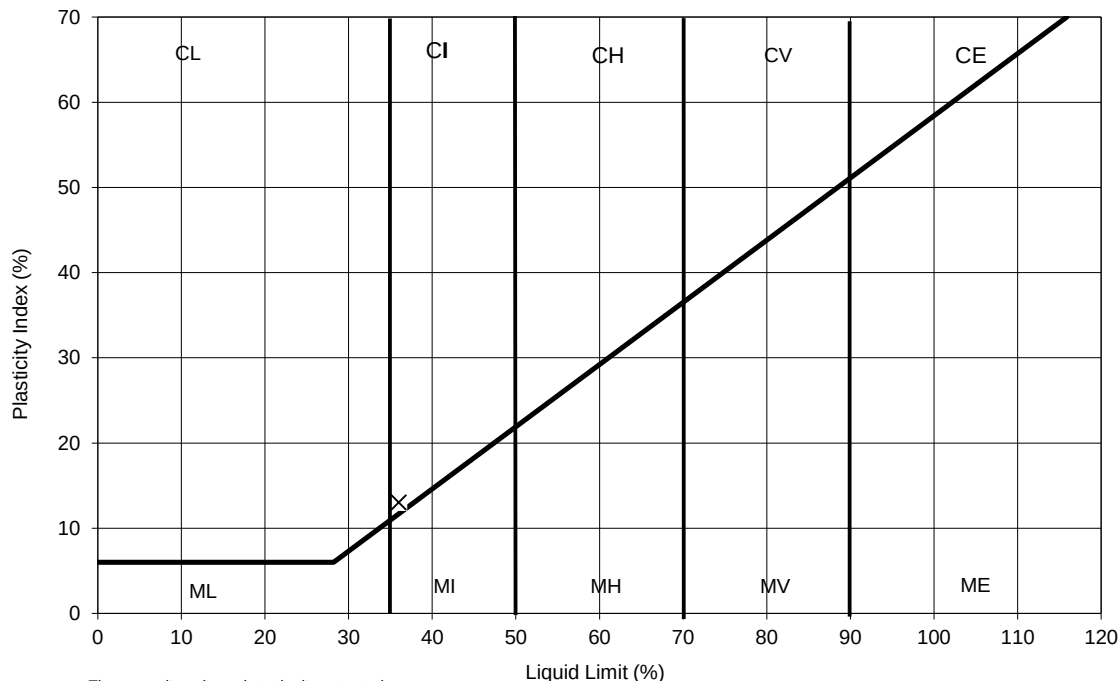
13

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS15

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Yellowish brown and light grey mottled slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular weakly to strongly cemented siltstone fragments)

Depth Base m -

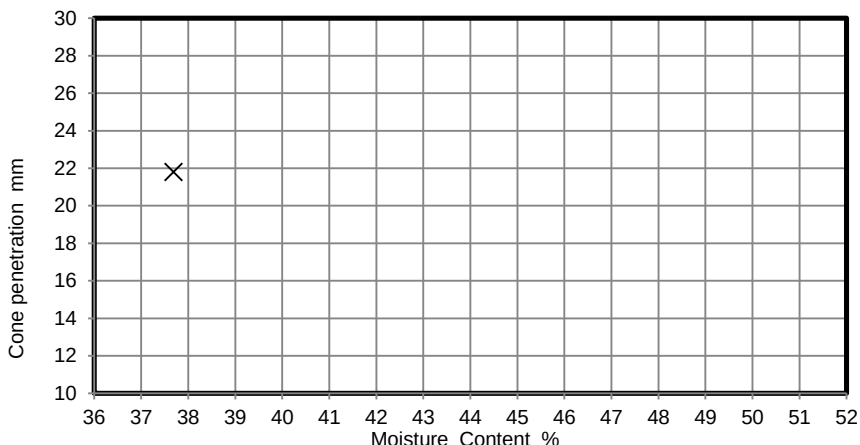
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 27/07/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

82

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

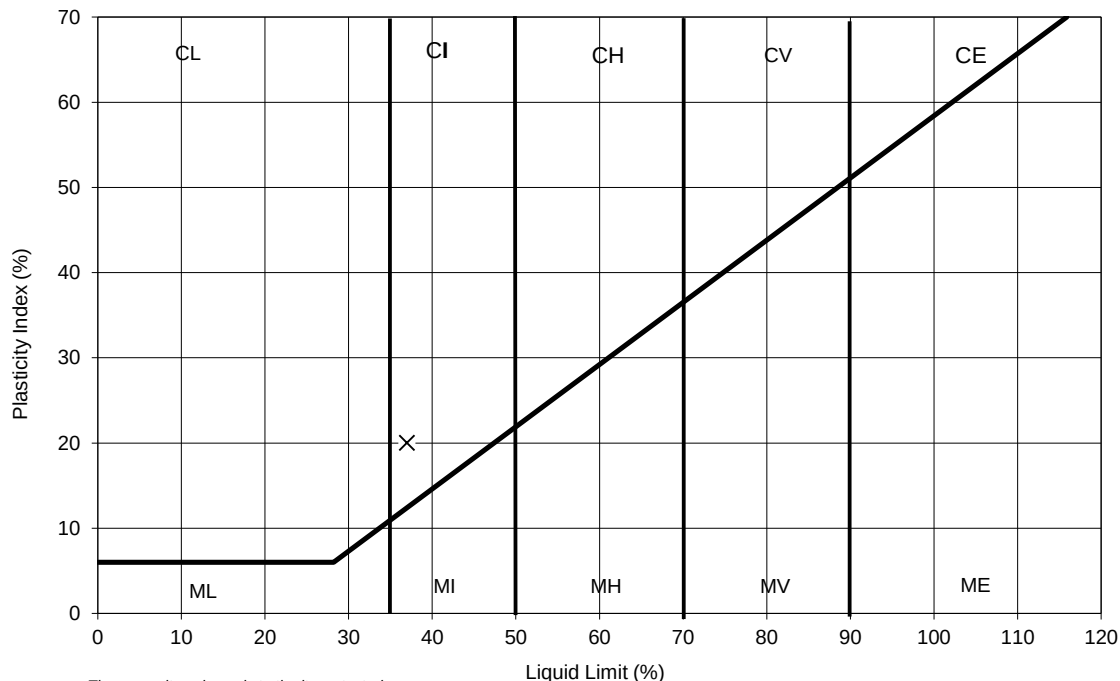
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS16

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, orangish brown and light grey, locally ironstained, slightly sandy silty CLAY with occasional fm mudstone fragments

Depth Base m -

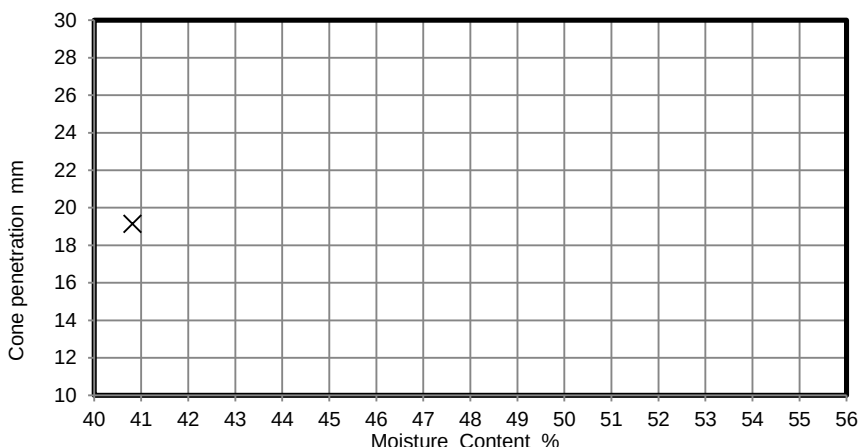
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

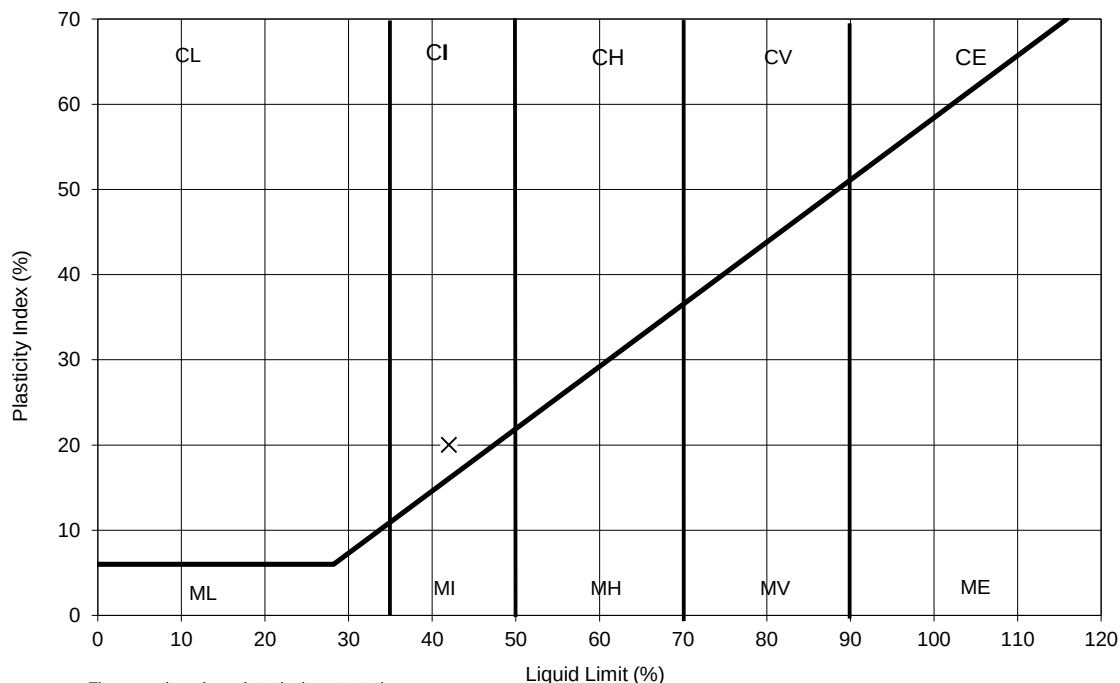
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS17

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Orangish brown and light grey slightly sandy silty CLAY with rare fm mudstone fragments

Depth Base m -

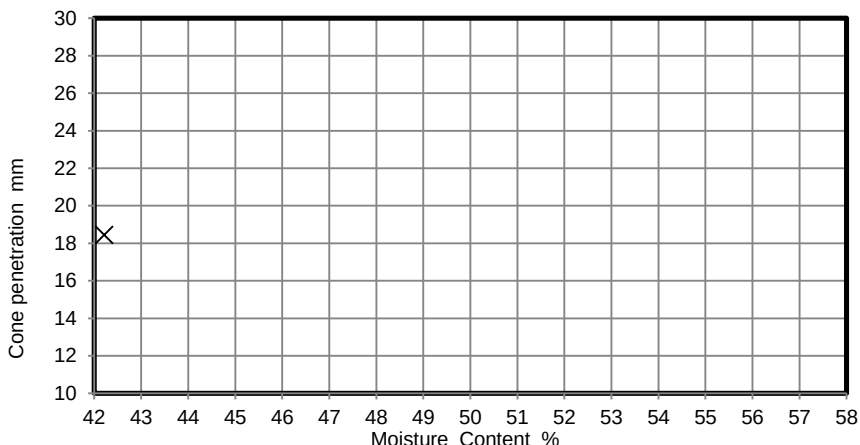
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

98

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

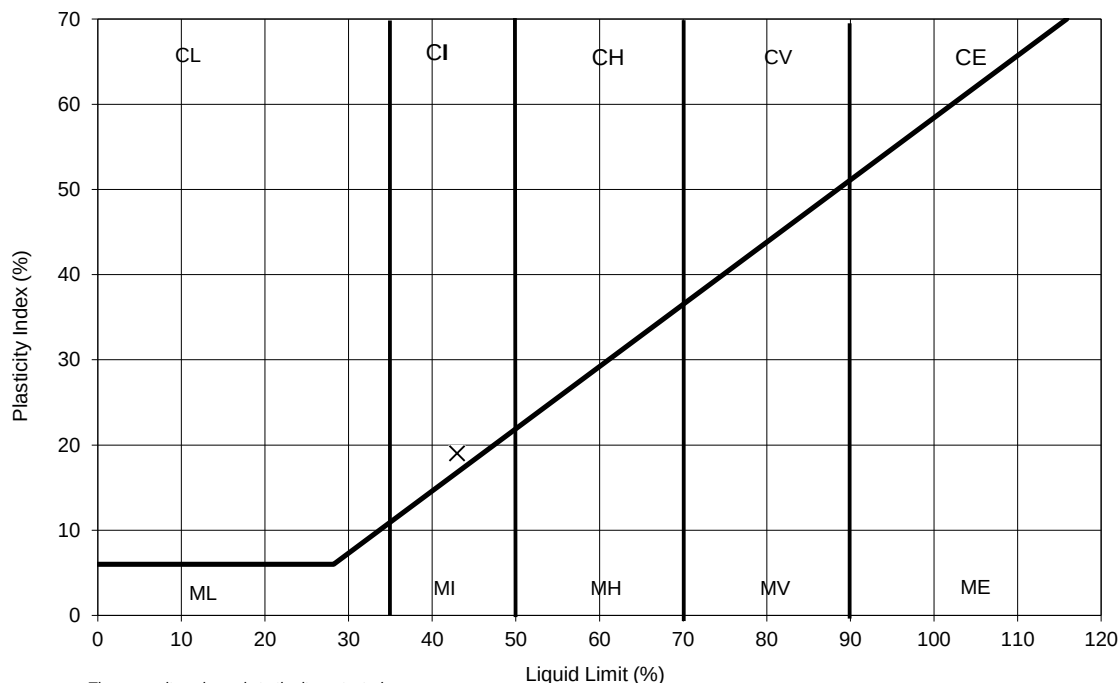
19

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS19

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and light grey slightly sandy silty CLAY with rare fm mudstone fragments

Depth Base m -

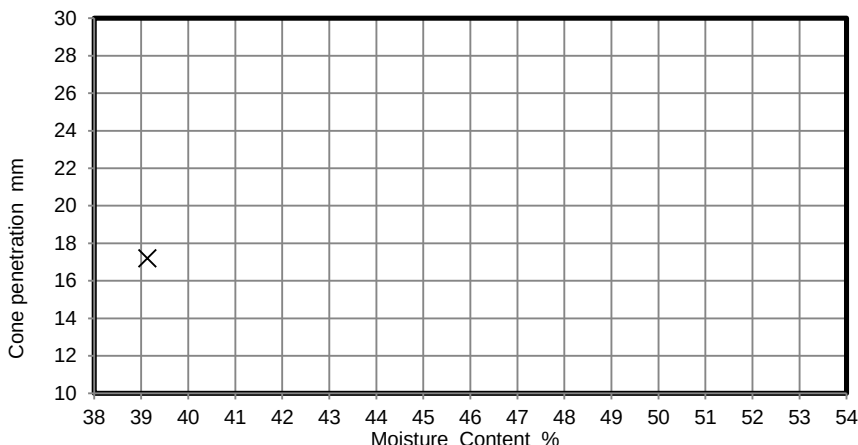
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

98

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

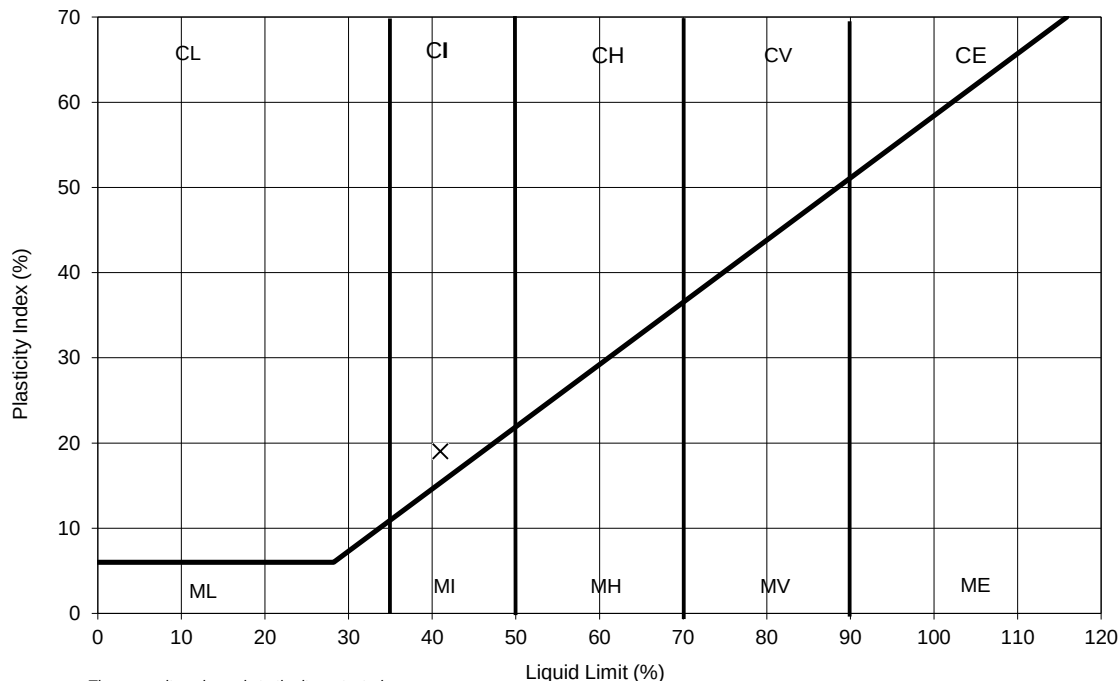
19

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

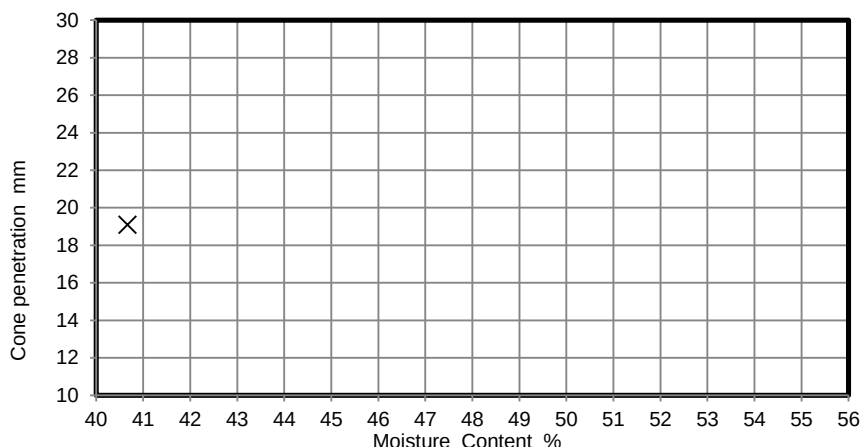
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS20
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown slightly mottled grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	23/06/2022

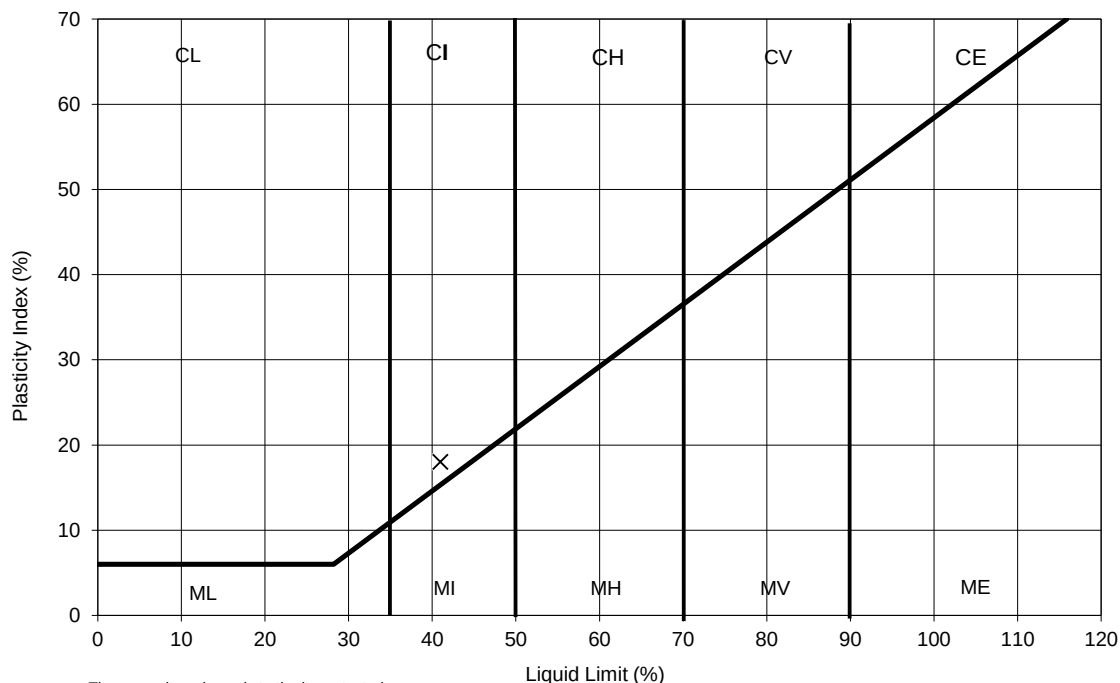


NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	95	%
LIQUID LIMIT	41	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	18	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS21

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, orangish brown and light grey, locally ironstained, sandy silty CLAY with occasional fmc mudstone fragments

Depth Base m -

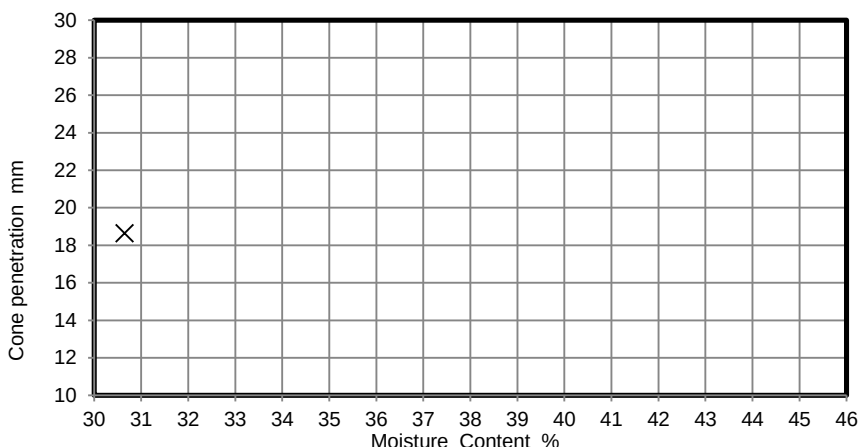
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

85

%

LIQUID LIMIT

31

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

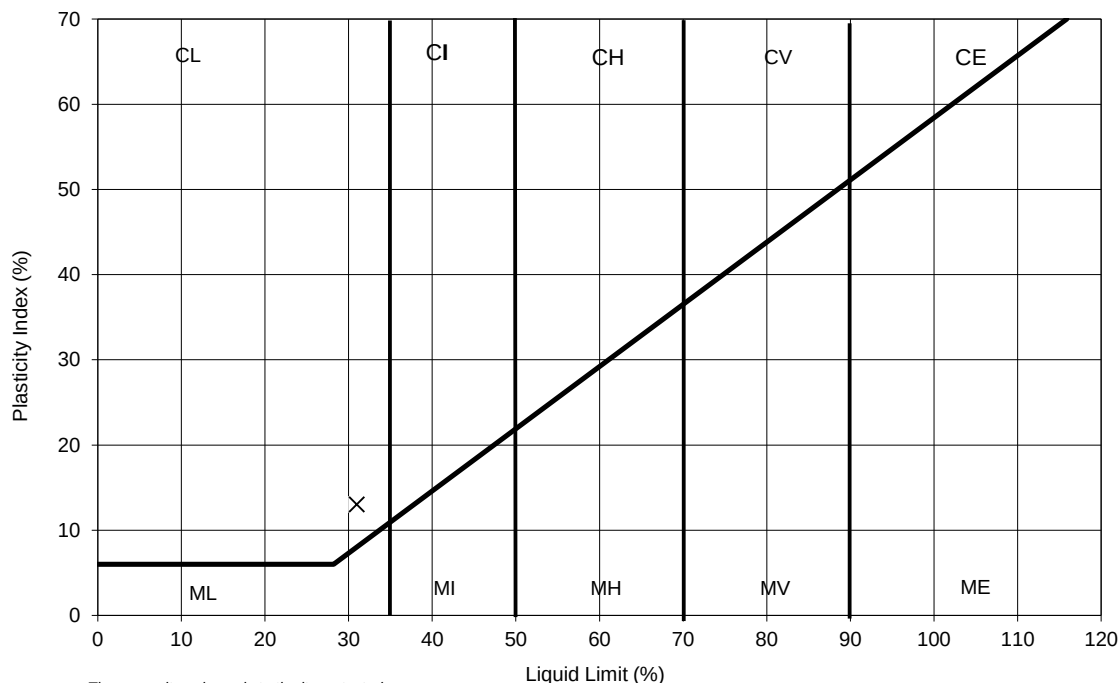
13

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

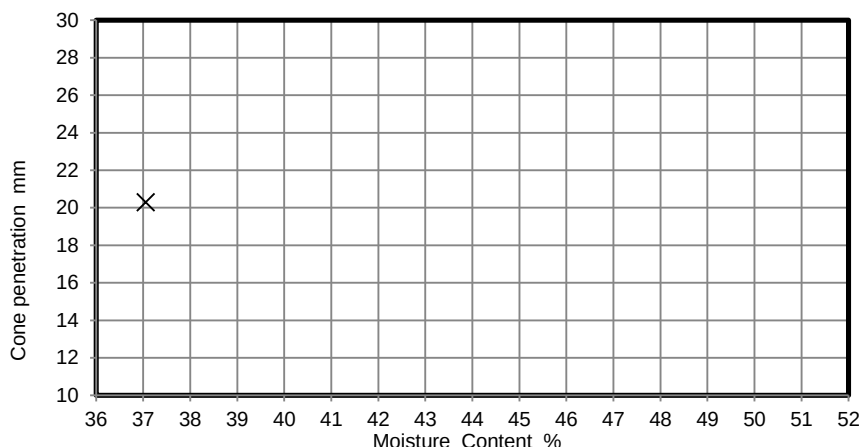
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS22
Site Name	North Horsham II			Sample No.	5
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Yellowish brown and light grey slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular weakly to strongly cemented siltstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	22/07/2022

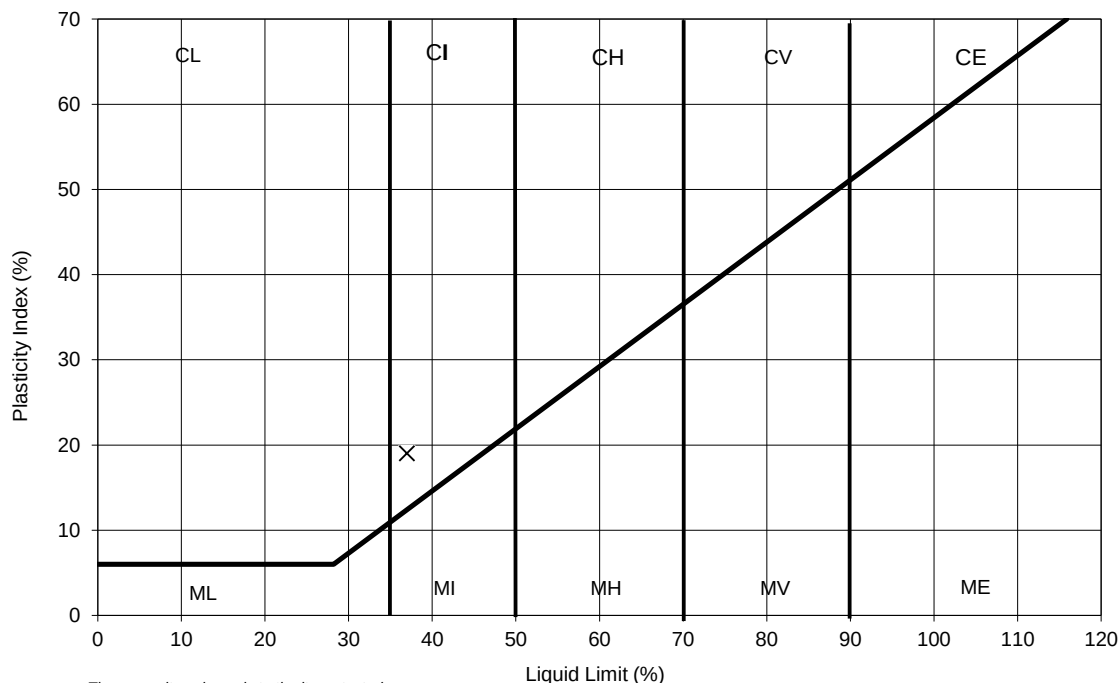


NATURAL MOISTURE CONTENT	14	%
% PASSING 425µm SIEVE	74	%
LIQUID LIMIT	37	%
PLASTIC LIMIT	18	%
PLASTICITY INDEX	19	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS23

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey mottled slightly sandy silty CLAY

Depth Base m -

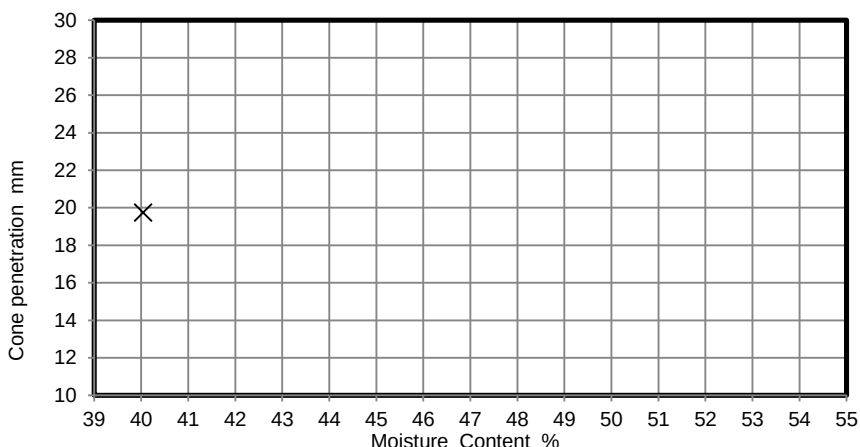
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

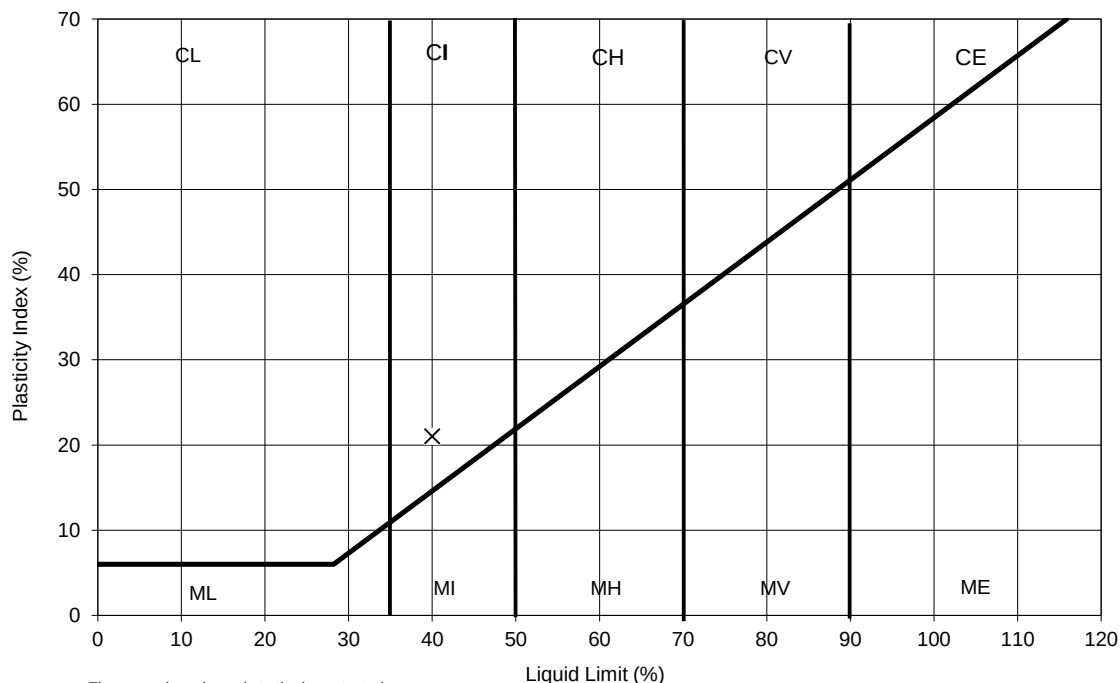
21

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS23

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Yellowish brown and light grey slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular weakly to strongly cemented siltstone fragments)

Depth Base m -

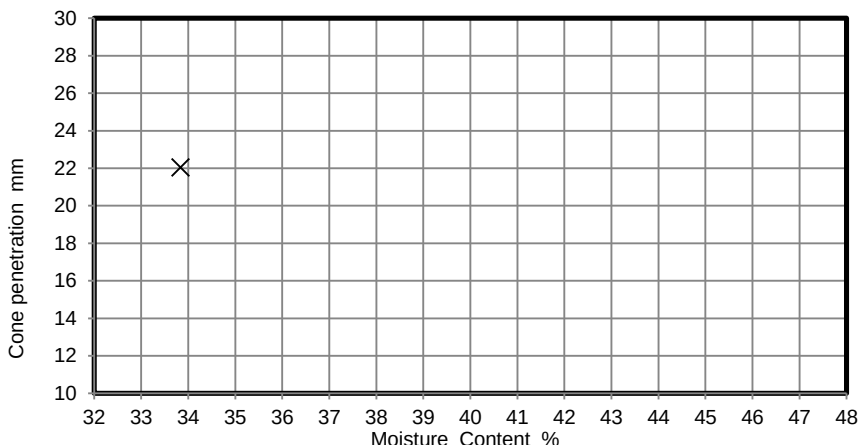
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

34

%

LIQUID LIMIT

33

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

15

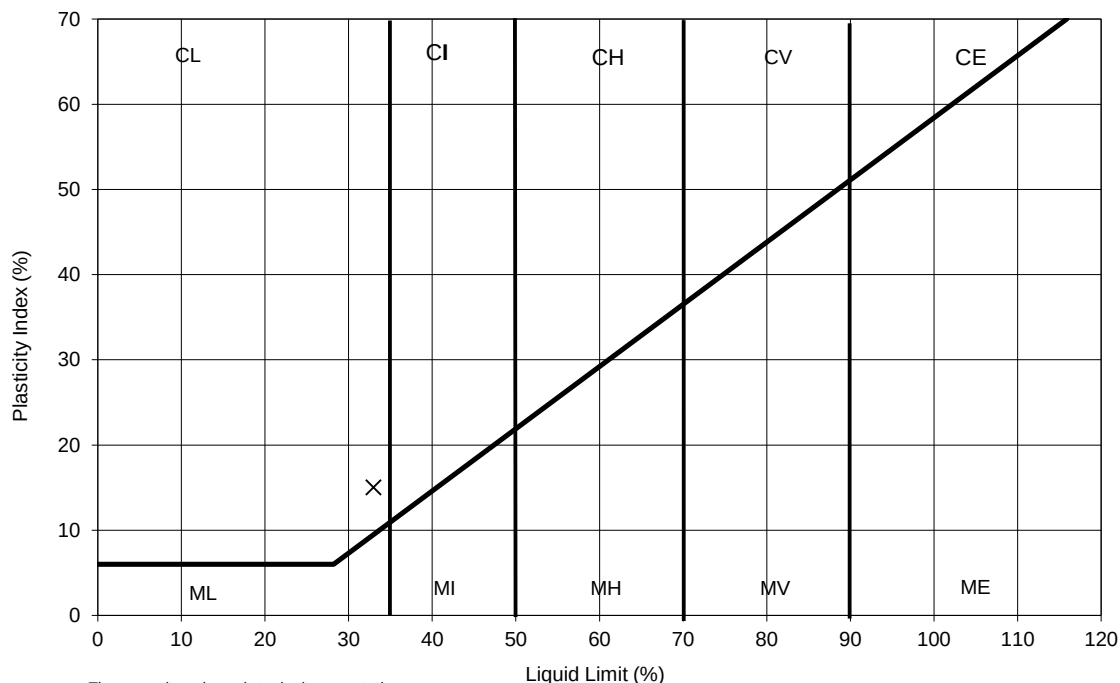
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

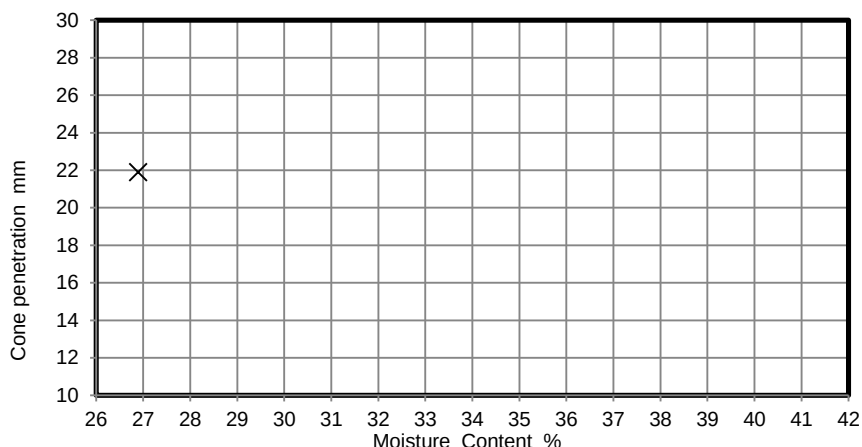
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS24
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Dark brown, orangish brown and light grey, locally ironstained, sandy silty CLAY with rare fm mudstone fragments			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	29/07/2022

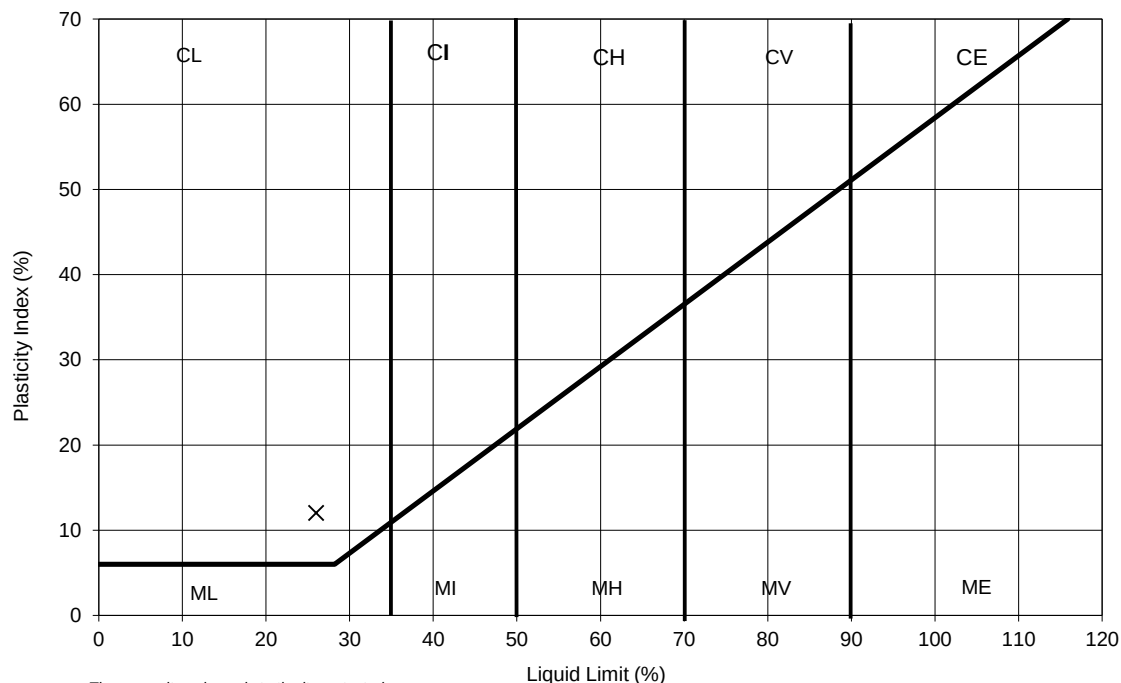


NATURAL MOISTURE CONTENT	16	%
% PASSING 425µm SIEVE	92	%
LIQUID LIMIT	26	%
PLASTIC LIMIT	14	%
PLASTICITY INDEX	12	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS25

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown slightly mottled grey silty CLAY

Depth Base m -

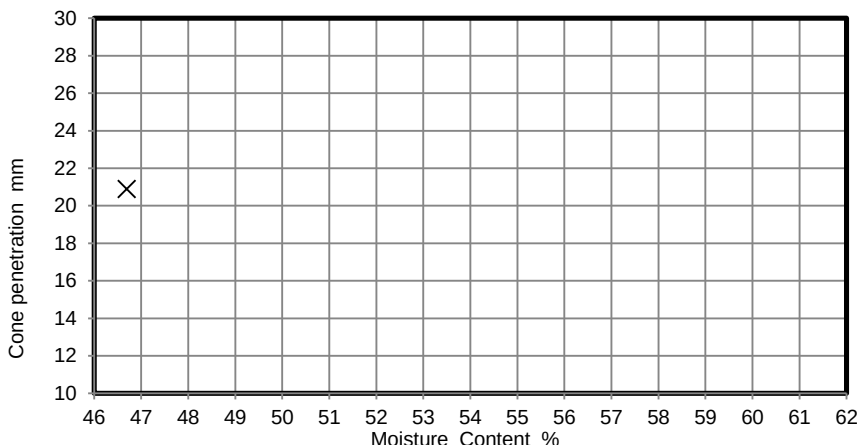
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

46

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

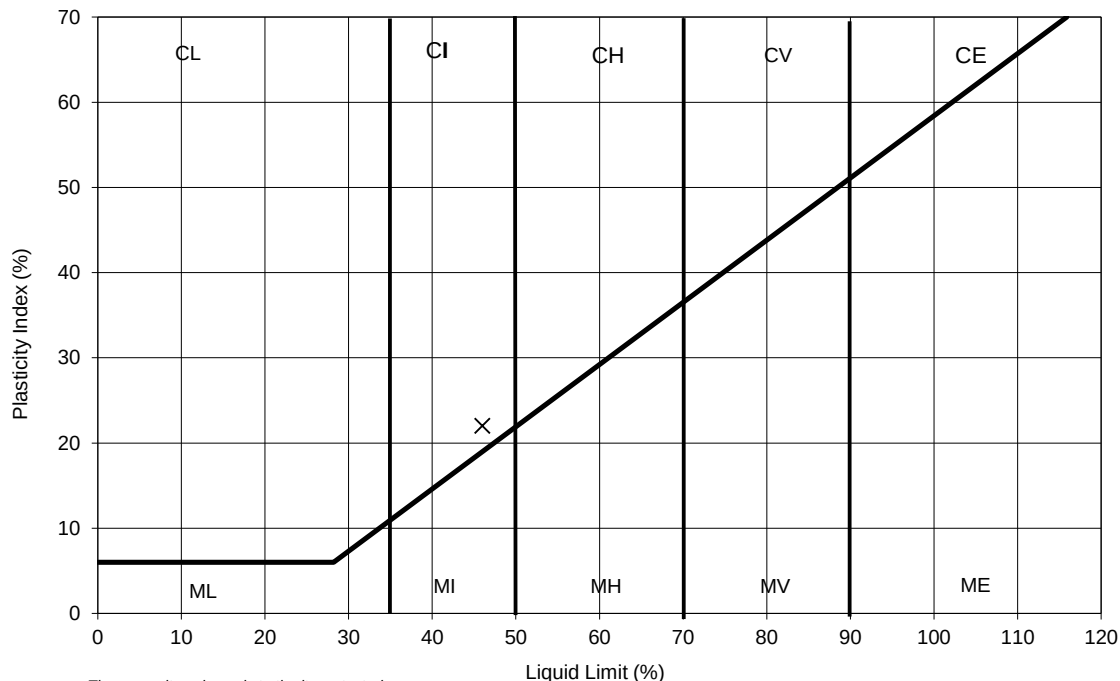
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS26

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Orangish brown slightly mottled grey slightly sandy silty CLAY

Depth Base m -

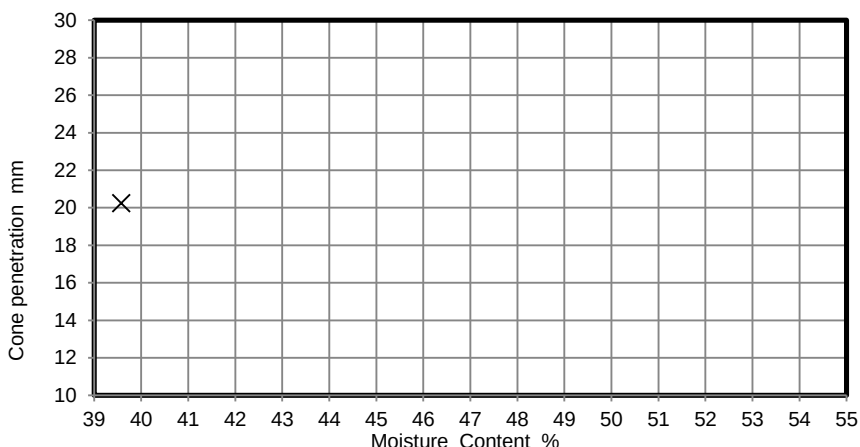
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

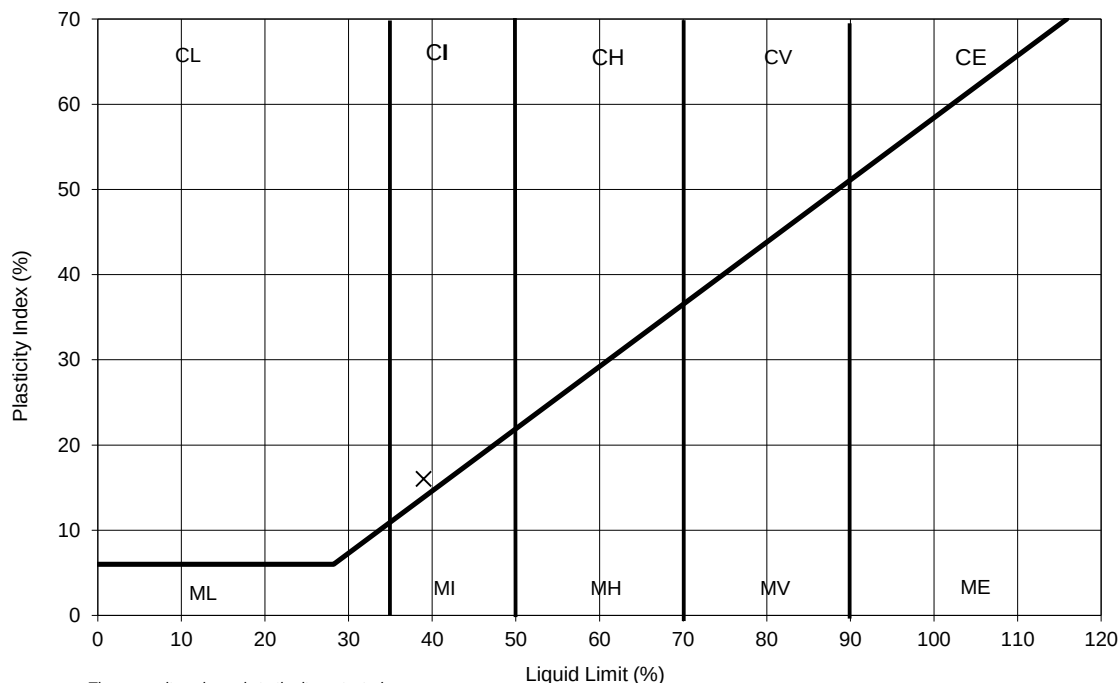
16

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS27

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light grey and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)

Depth Base m -

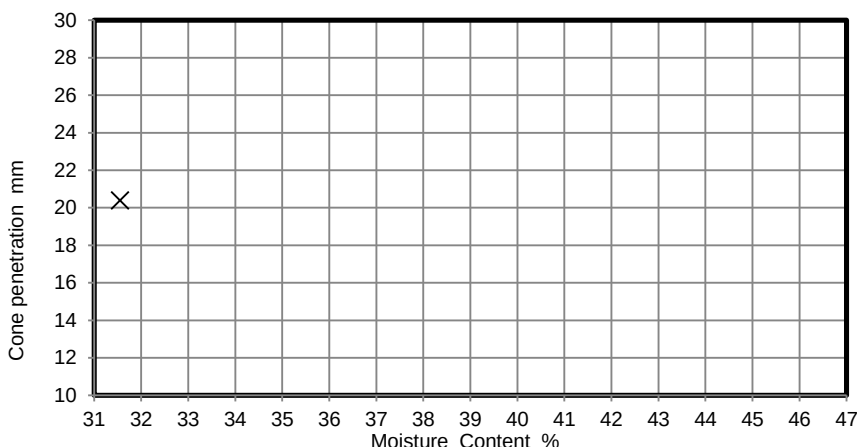
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

31

%

PLASTIC LIMIT

16

%

PLASTICITY INDEX

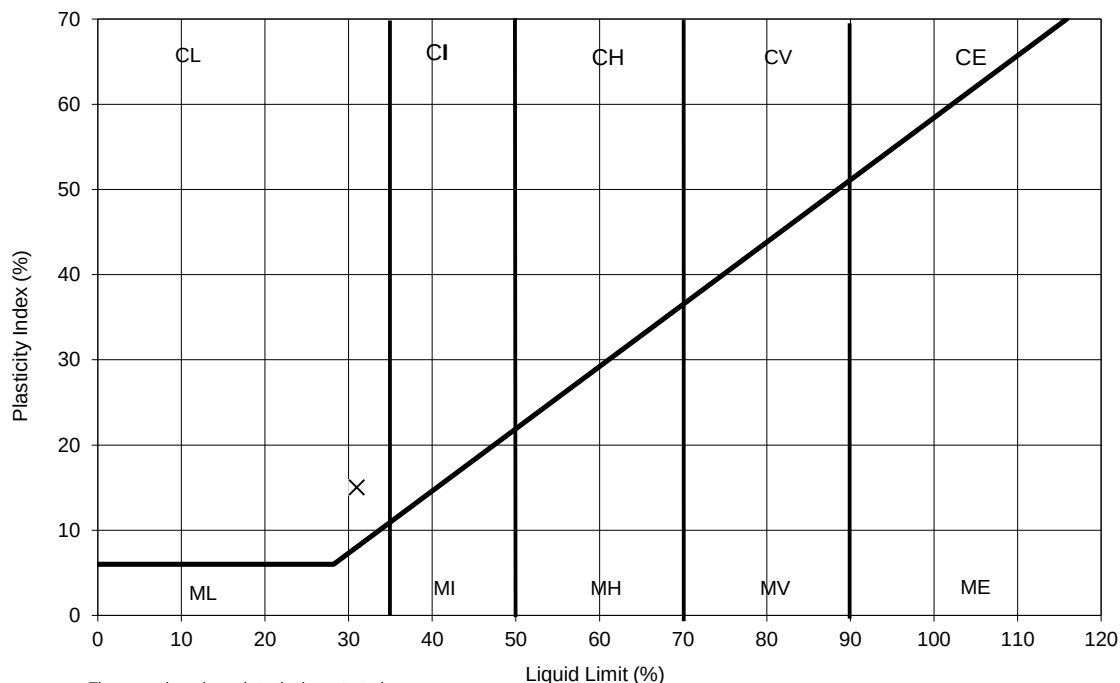
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

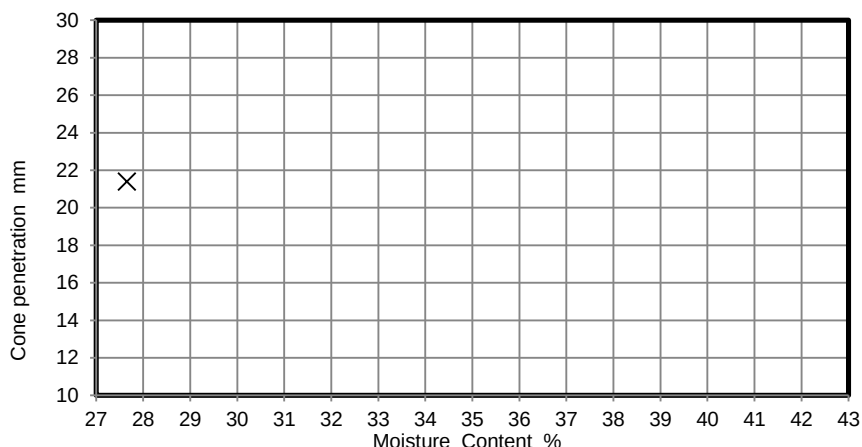
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS28
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular weakly to strongly cemented siltstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	22/07/2022



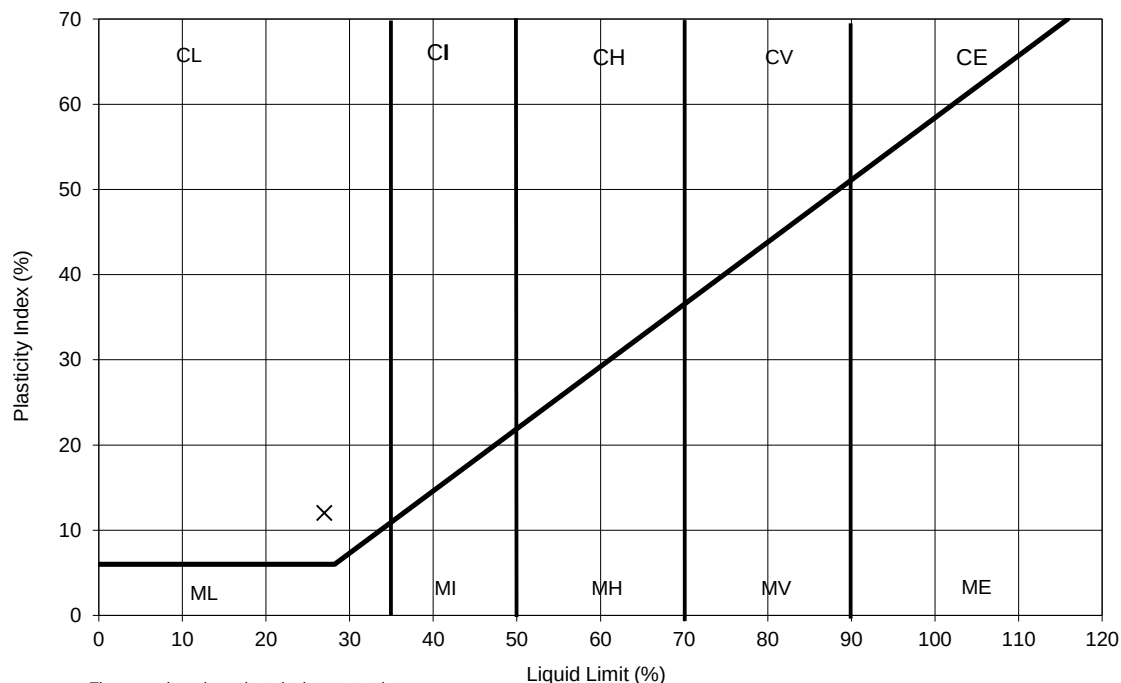
NATURAL MOISTURE CONTENT	10	%
% PASSING 425µm SIEVE	39	%
LIQUID LIMIT	27	%
PLASTIC LIMIT	15	%
PLASTICITY INDEX	12	%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



2519



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS28

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Orangish brown slightly mottled grey slightly sandy silty CLAY

Depth Base m -

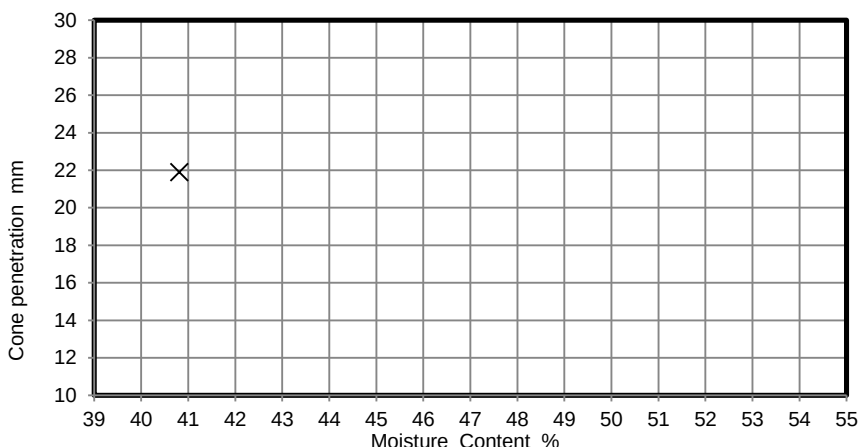
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

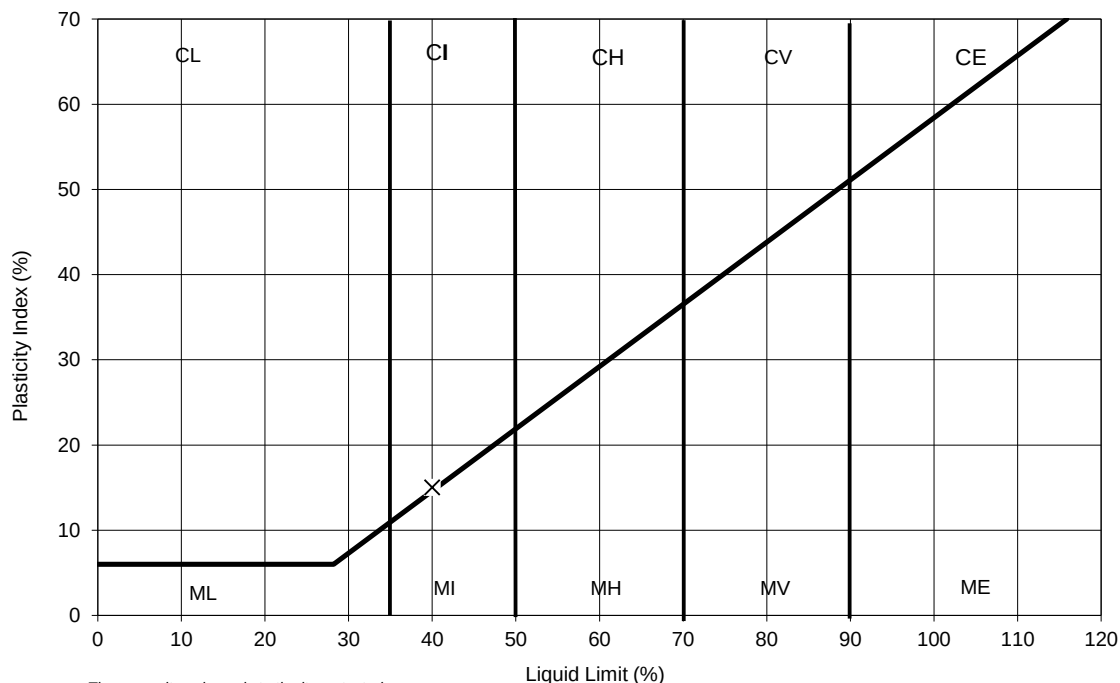
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS29

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown slightly mottled bluish grey silty CLAY

Depth Base m -

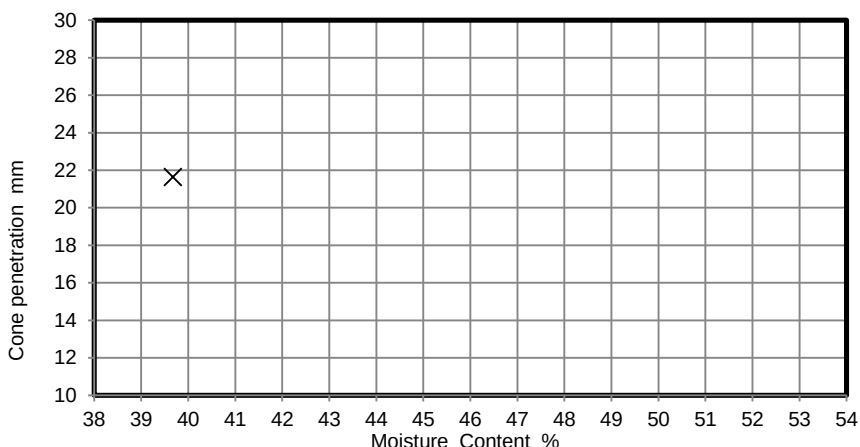
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 23/06/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

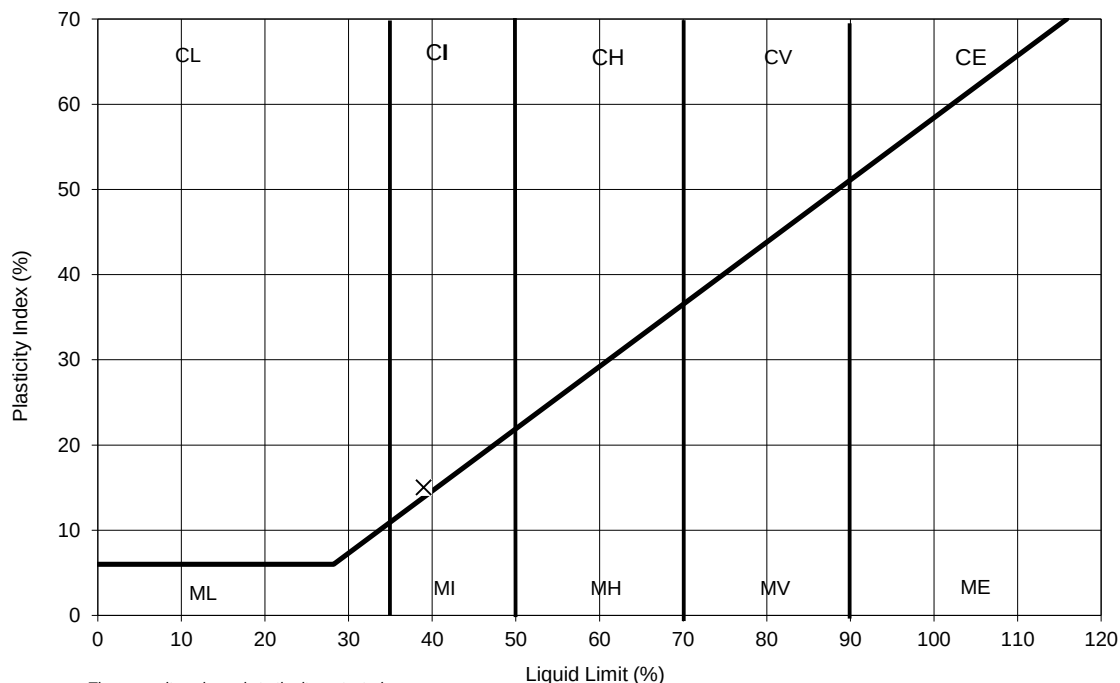
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

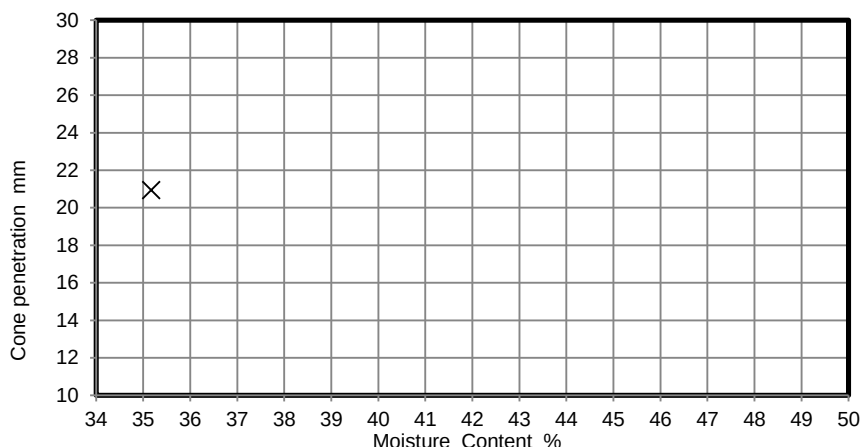
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS30
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Light brown slightly sandy gravelly silty CLAY (gravel is fmc and angular to sub-angular possibly weakly to strongly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	12/07/2022

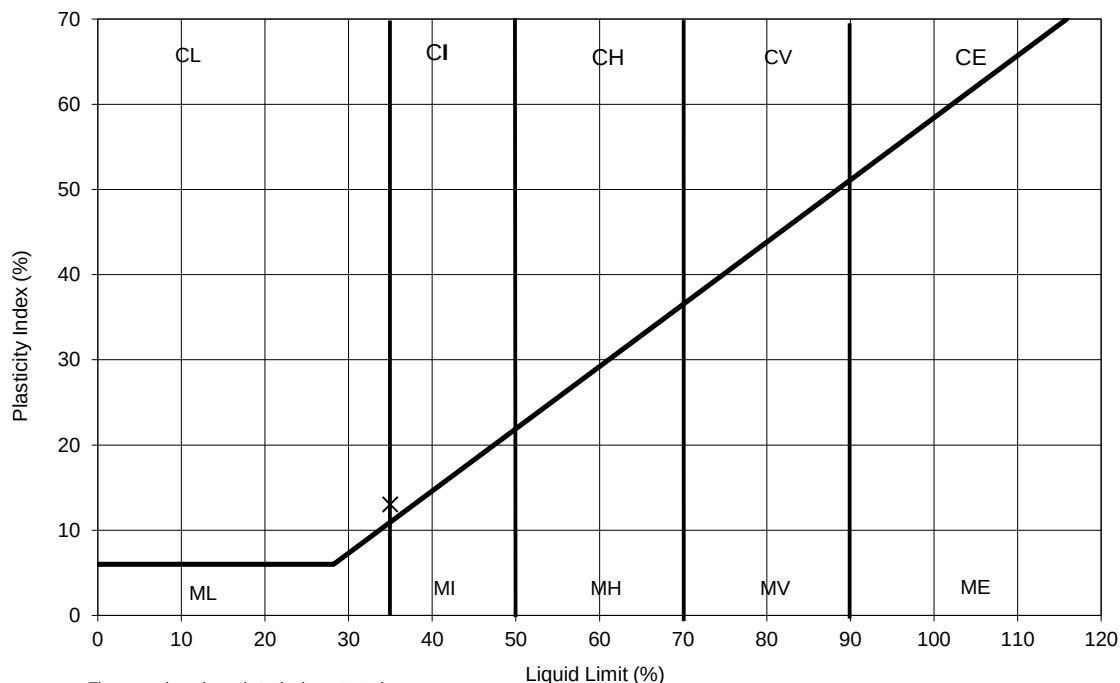


NATURAL MOISTURE CONTENT	13	%
% PASSING 425µm SIEVE	45	%
LIQUID LIMIT	35	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	13	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS30

Site Name North Horsham II

Sample No.

Project No. GE20724

Client

GESL

Depth Top m 2.00

Soil Description

Orangish brown and light grey silty CLAY

Depth Base m -

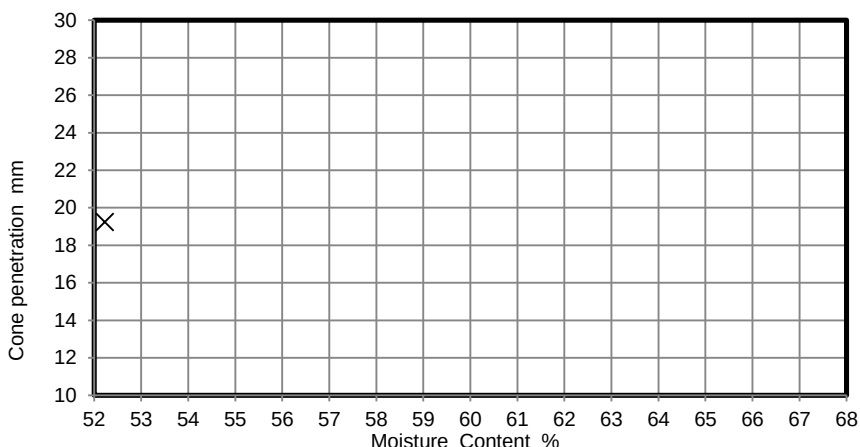
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 30/06/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

53

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

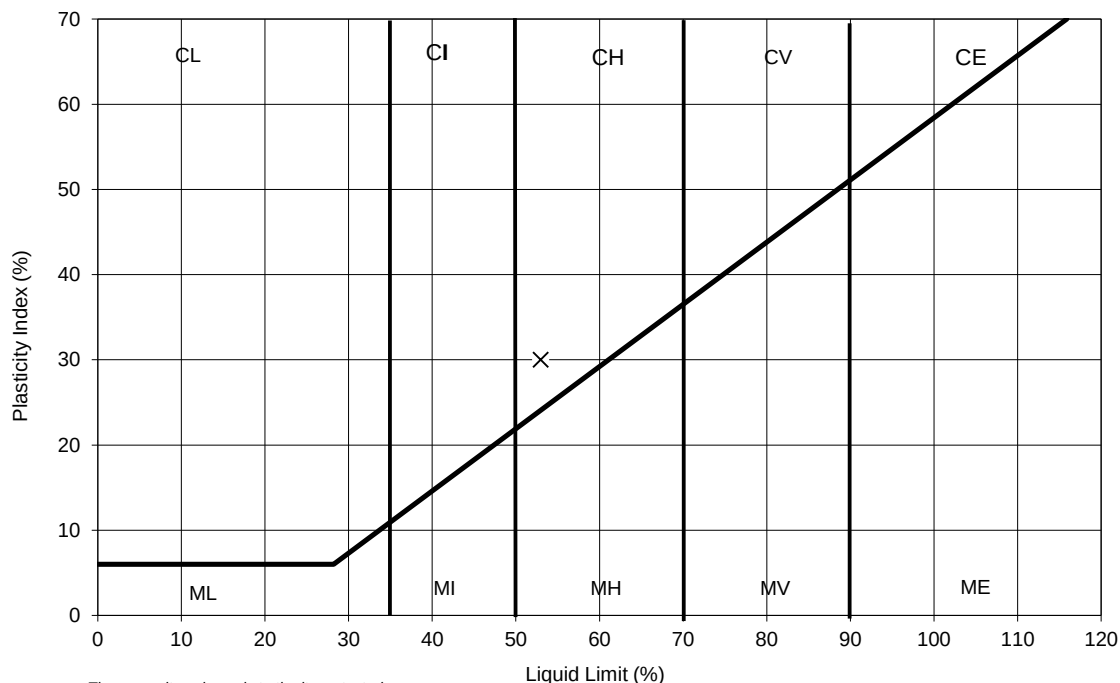
30

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS31

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Greyish brown gravelly sandy silty CLAY (gravel is fmc and angular to sub-angular possibly weakly to strongly cemented sandstone fragments)

Depth Base m -

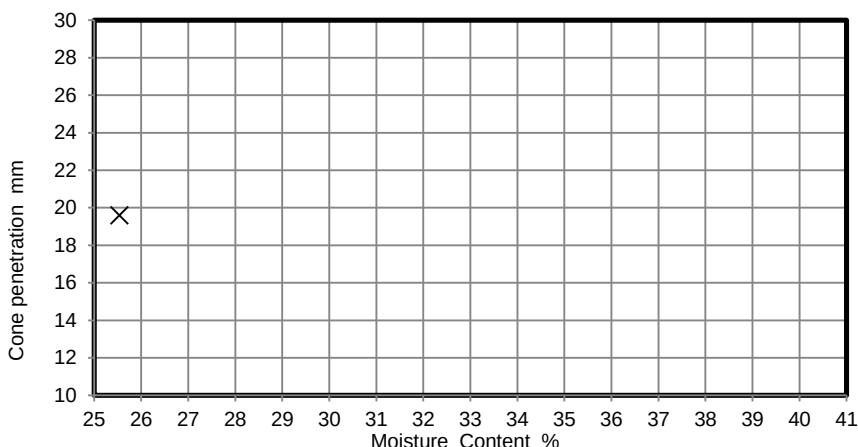
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 14/07/2022



NATURAL MOISTURE CONTENT

8.8

%

% PASSING 425µm SIEVE

52

%

LIQUID LIMIT

26

%

PLASTIC LIMIT

14

%

PLASTICITY INDEX

12

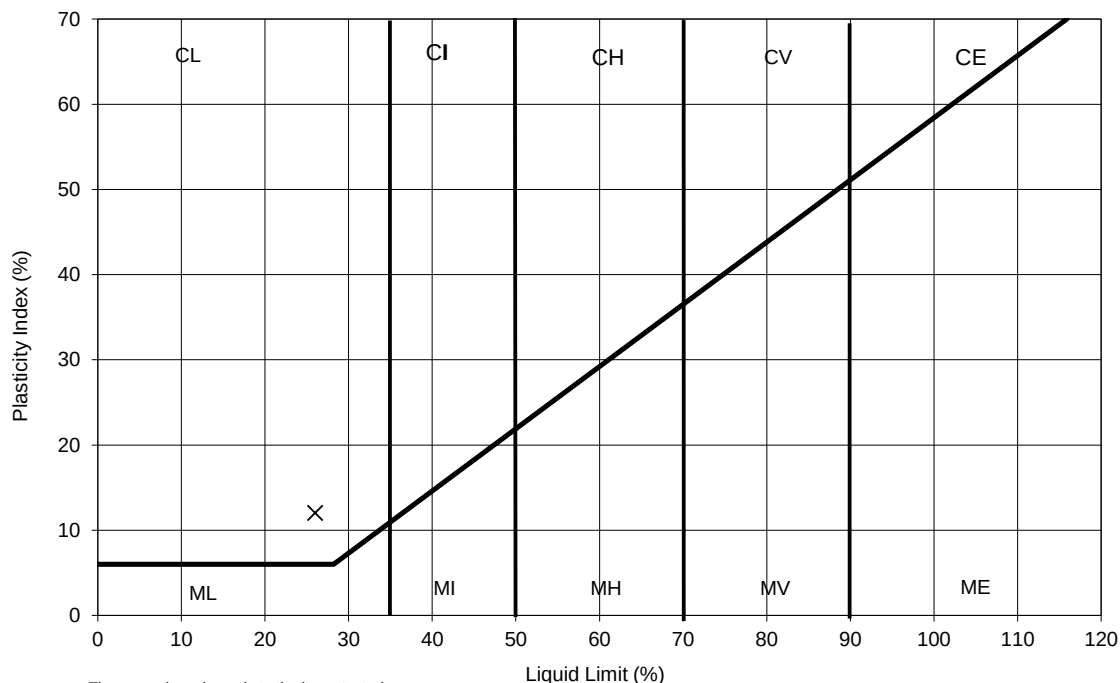
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS32

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light brown slightly mottled bluish grey silty CLAY

Depth Base m -

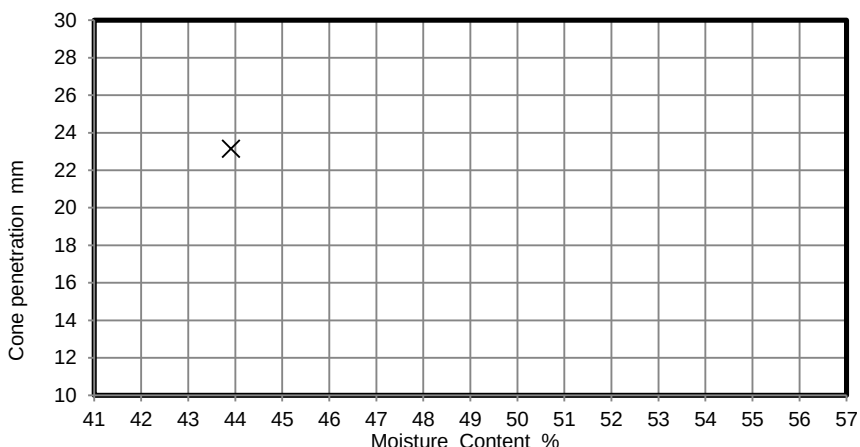
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/06/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

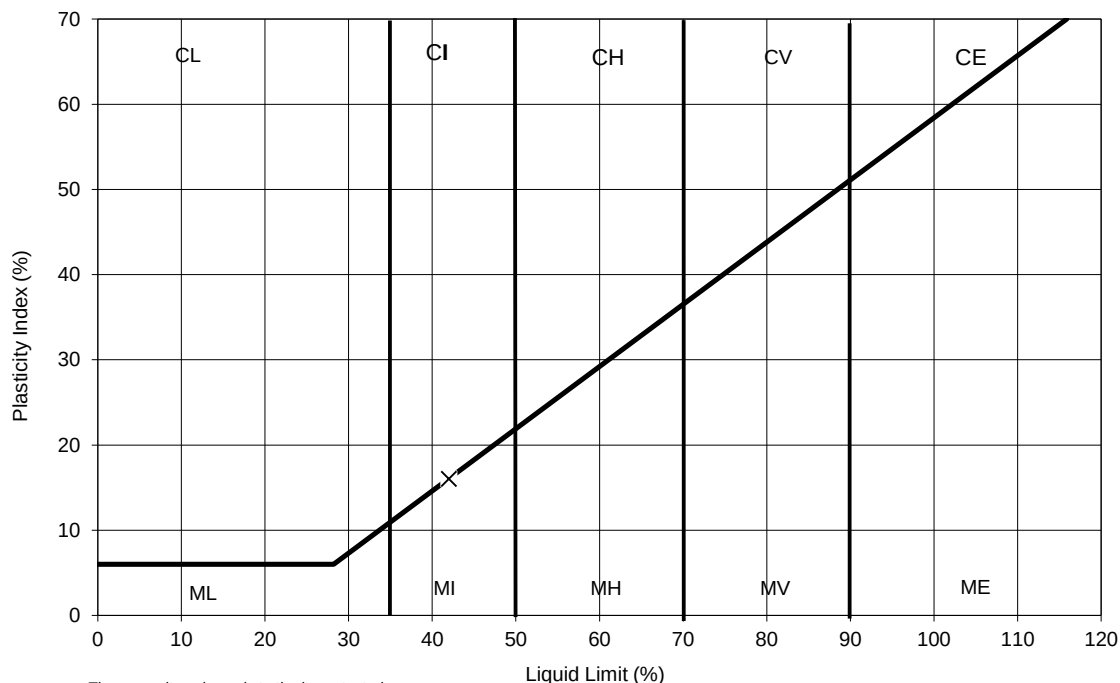
16

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS33

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.70

Soil Description

Light greyish brown mottled orangish brown silty CLAY

Depth Base m -

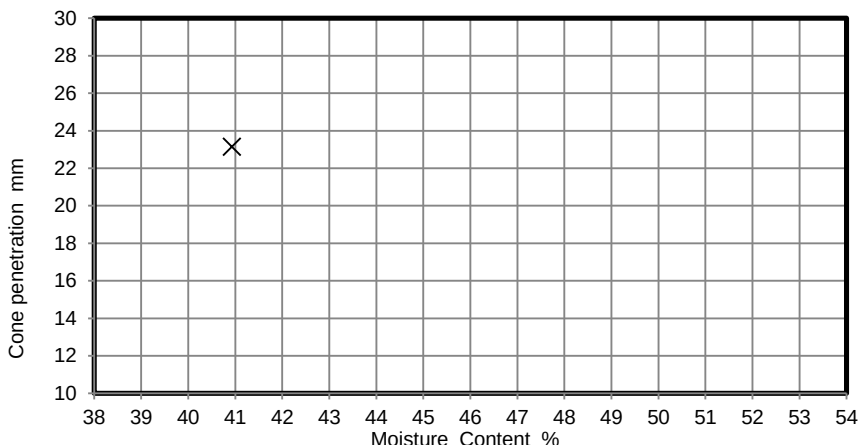
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

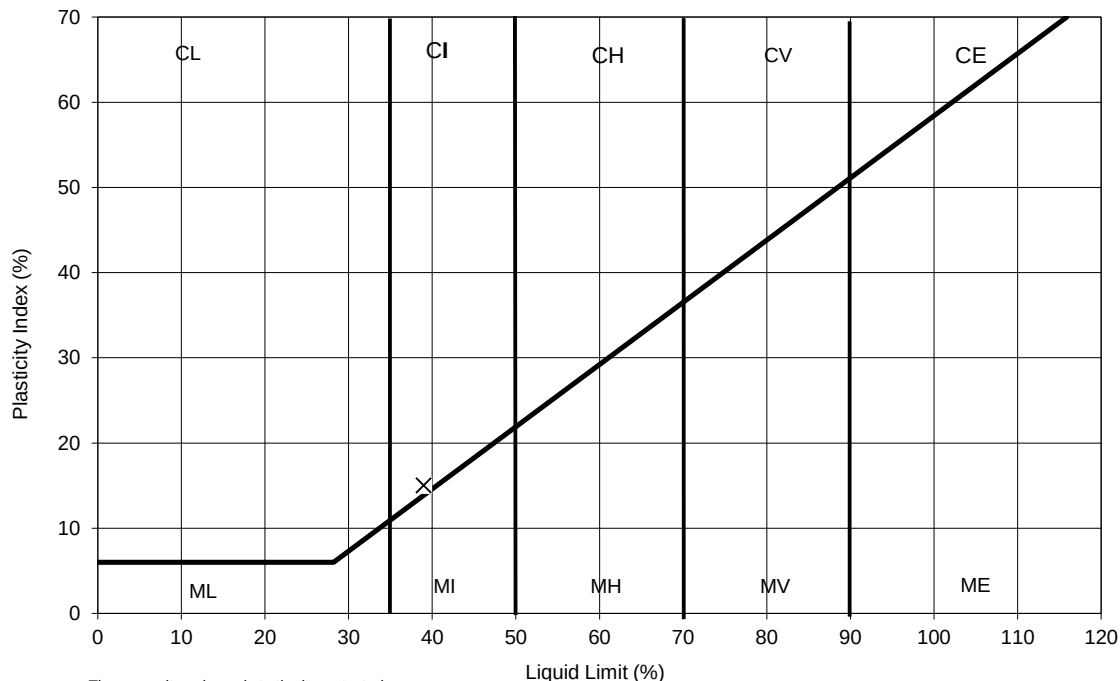
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS34

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and light grey slightly gravelly sandy silty CLAY
(gravel consists of fmc mudstone fragments)

Depth Base m -

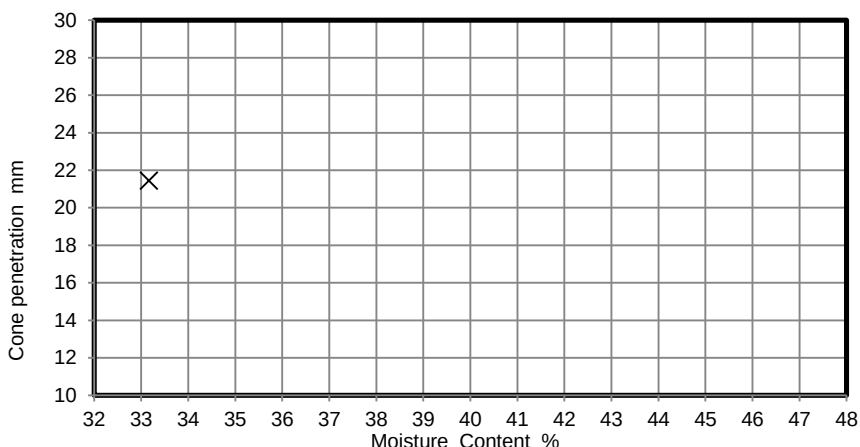
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 28/07/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

84

%

LIQUID LIMIT

32

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

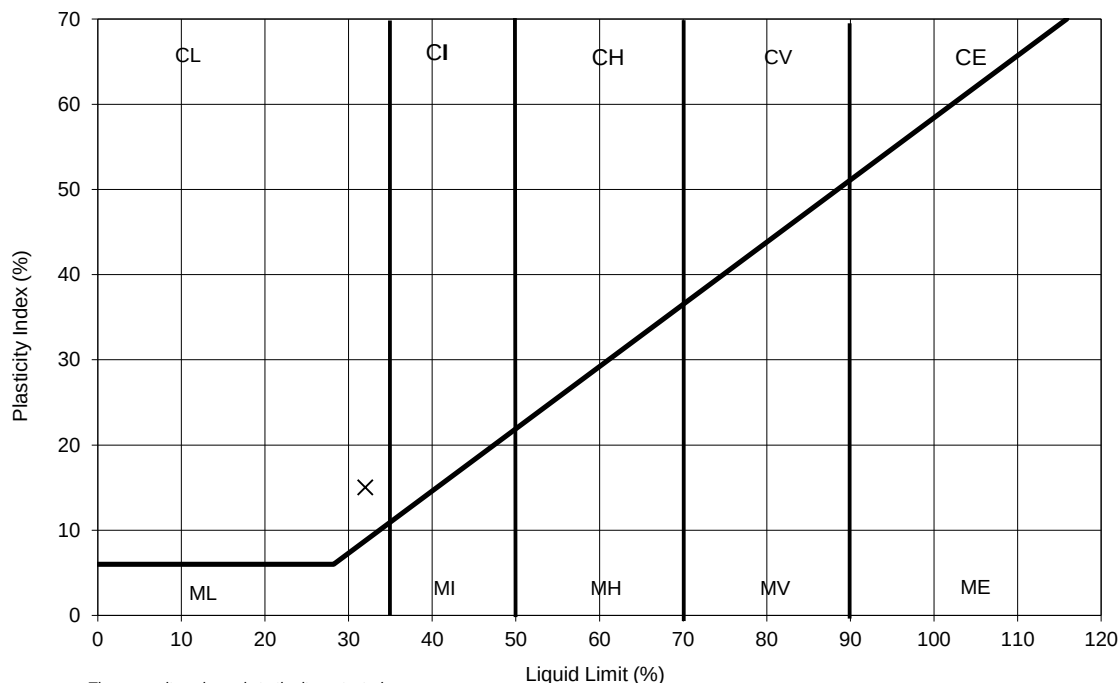
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS35

Site Name North Horsham II

Sample No. 3

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Light greyish brown and orangish brown silty CLAY with sandy patches and rare fine gravel

Depth Base m -

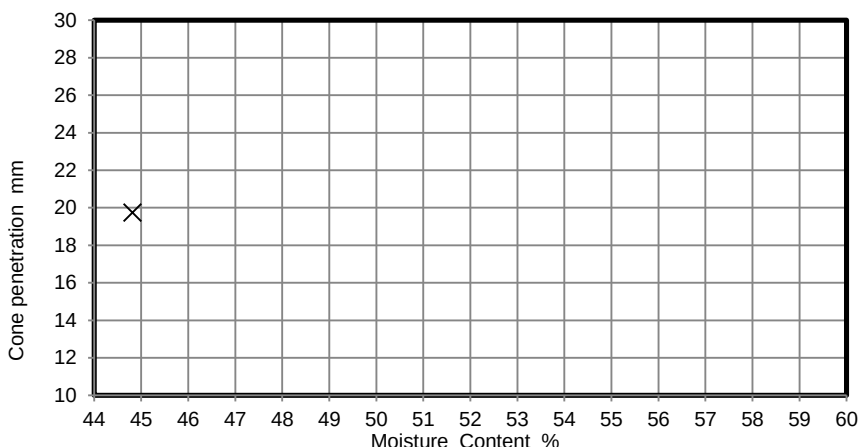
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 29/07/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

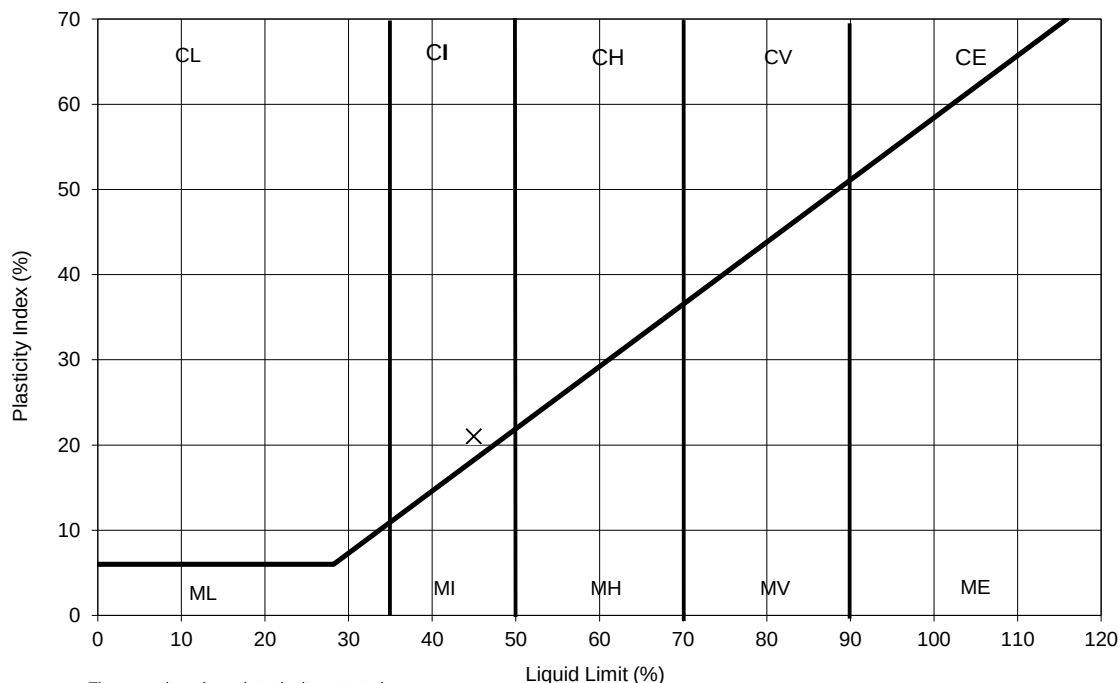
21

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS36

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Light grey mottled brown silty CLAY

Depth Base m -

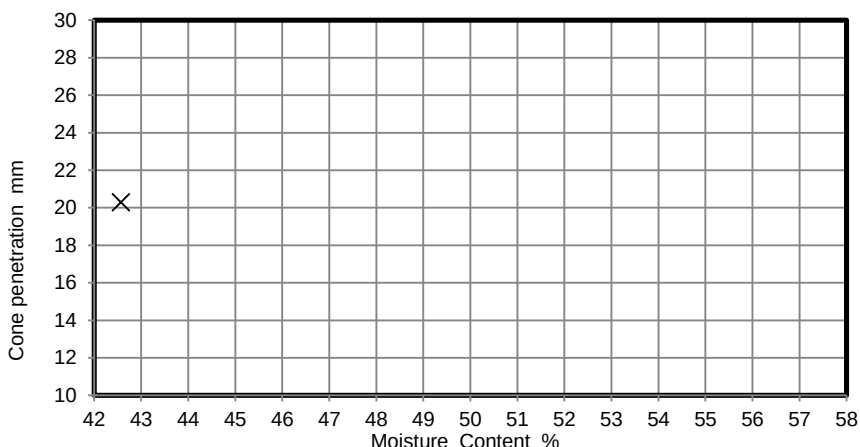
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

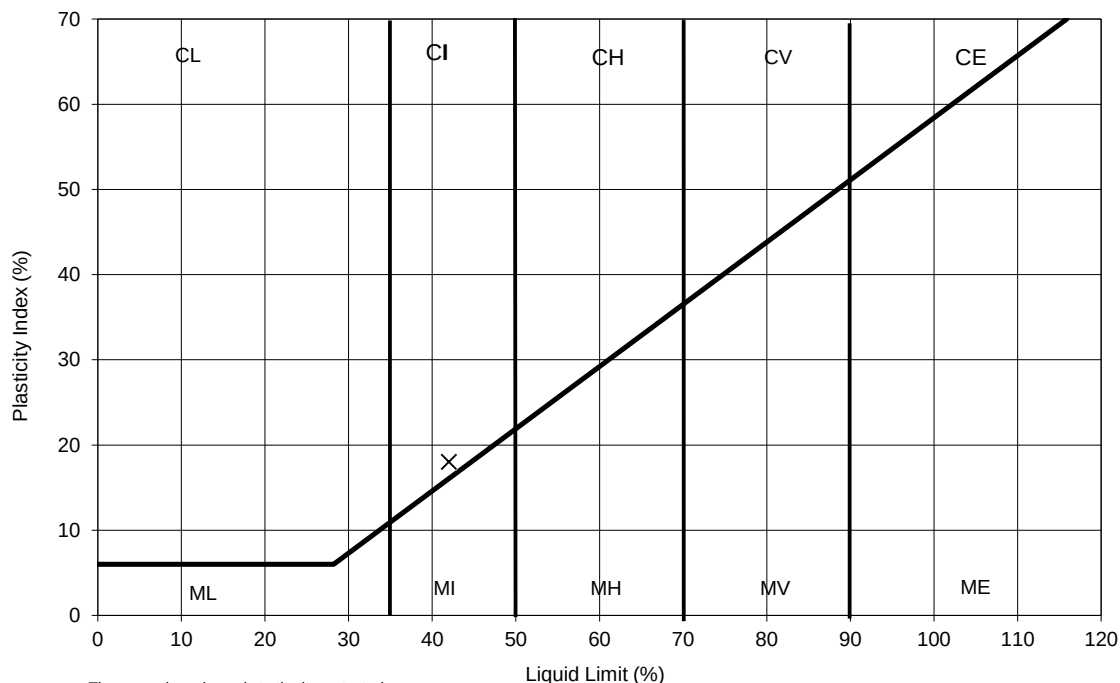
18

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS37

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and light grey silty CLAY

Depth Base m -

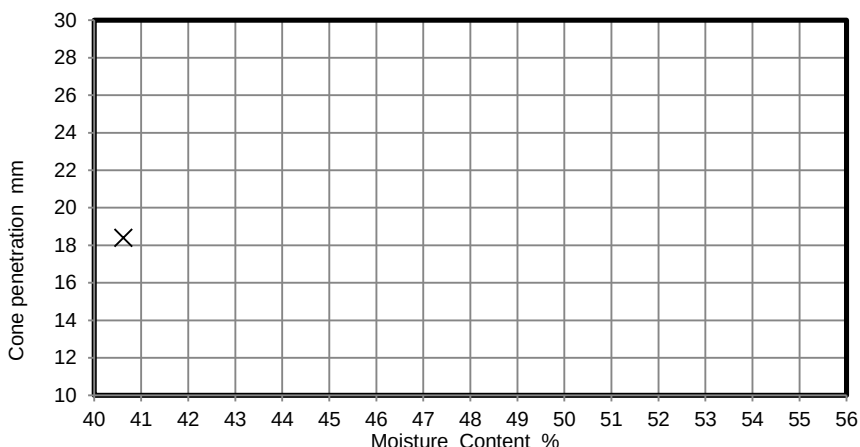
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 30/06/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

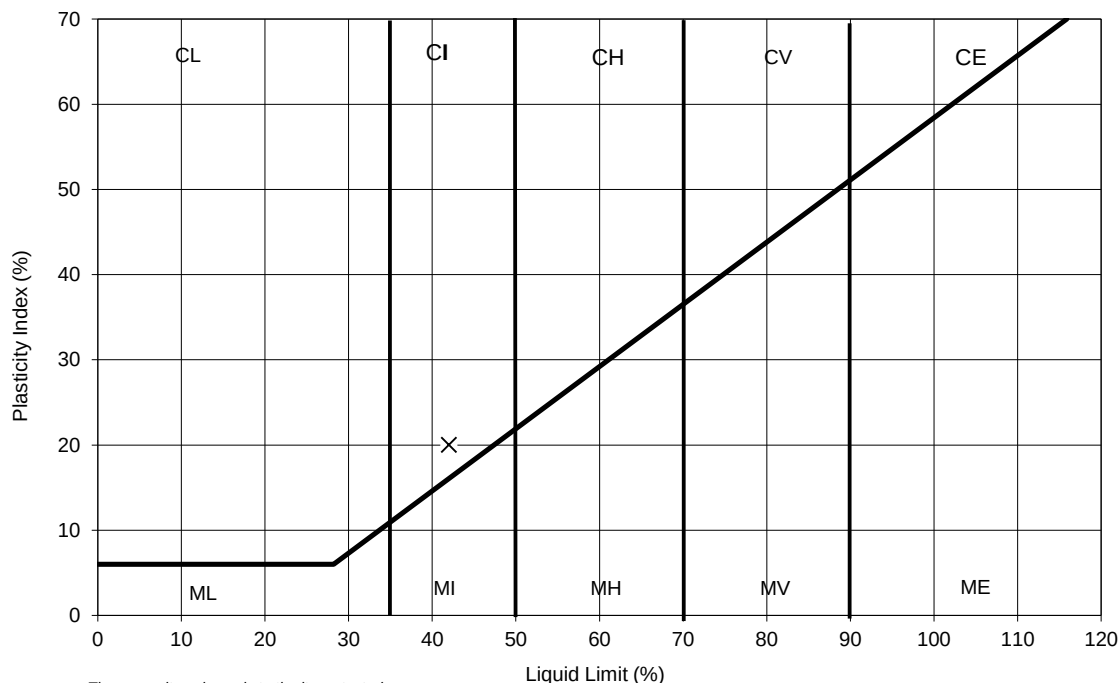
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS38

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and occasional light grey slightly sandy silty
CLAY/clayey SILT

Depth Base m -

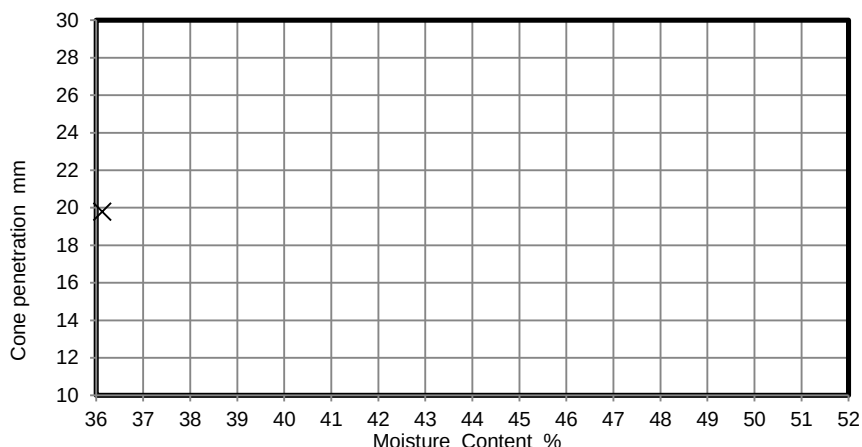
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 28/07/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

36

%

PLASTIC LIMIT

20

%

PLASTICITY INDEX

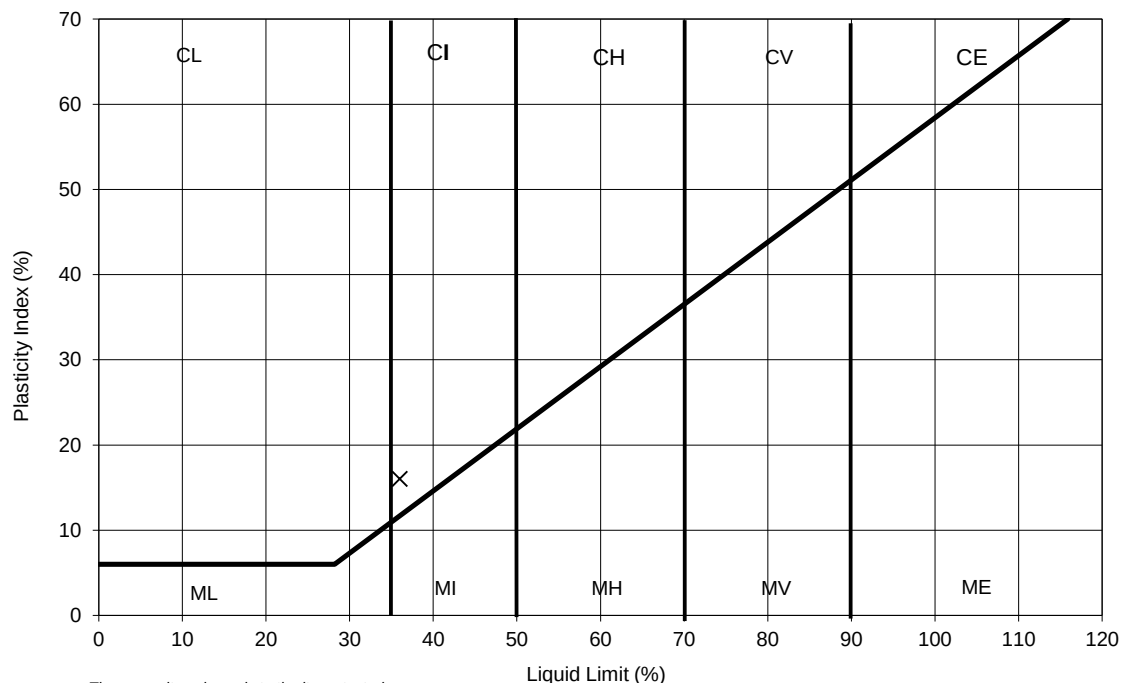
16

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS38

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.70

Soil Description

Orangish brown and occasional light grey slightly fine sandy silty CLAY with mudstone fragments

Depth Base m -

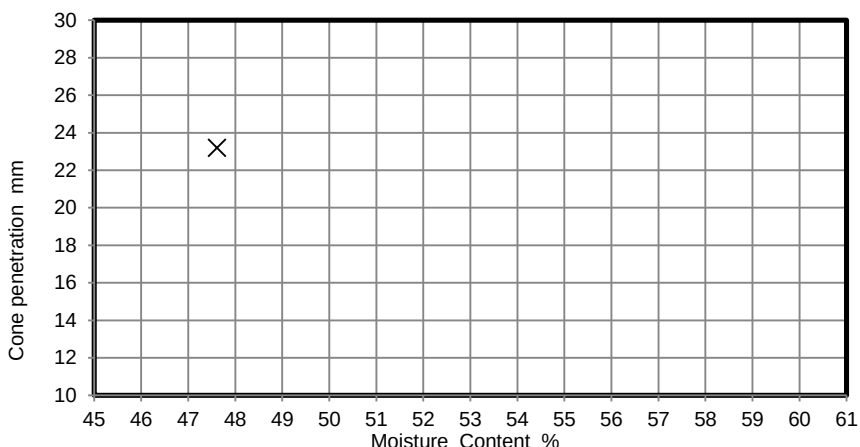
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 01/08/2022



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

70

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

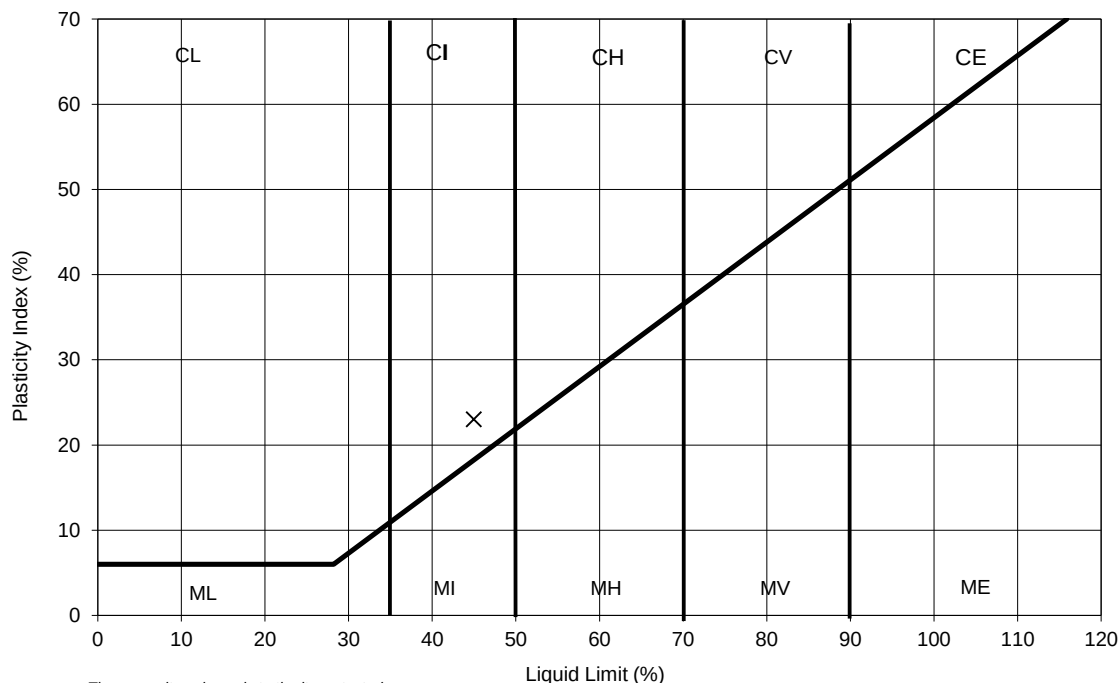
23

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS39

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown, orangish brown and light grey silty CLAY

Depth Base m -

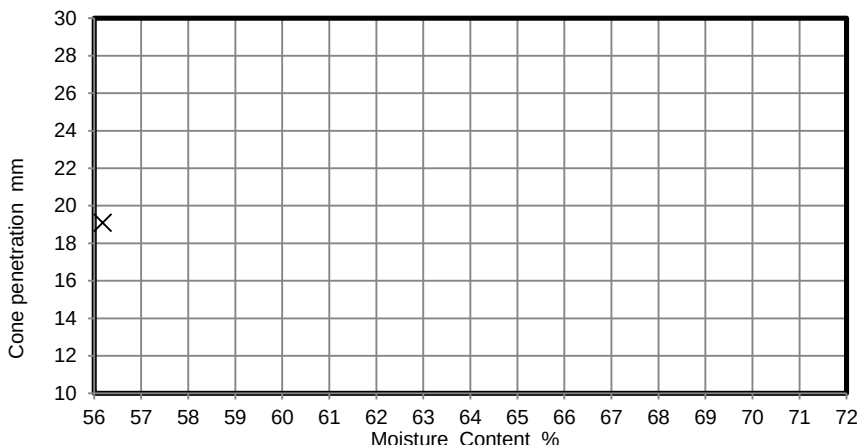
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

57

%

PLASTIC LIMIT

27

%

PLASTICITY INDEX

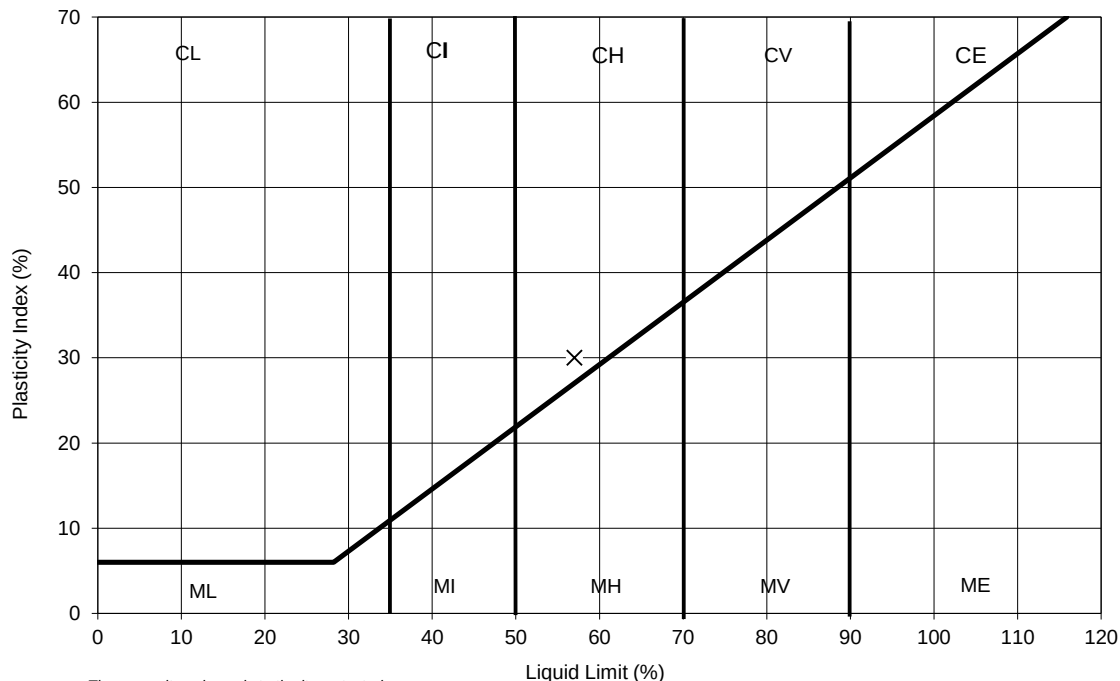
30

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS40

Site Name North Horsham II

Sample No. 3

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Light grey mottled orangish brown silty CLAY

Depth Base m -

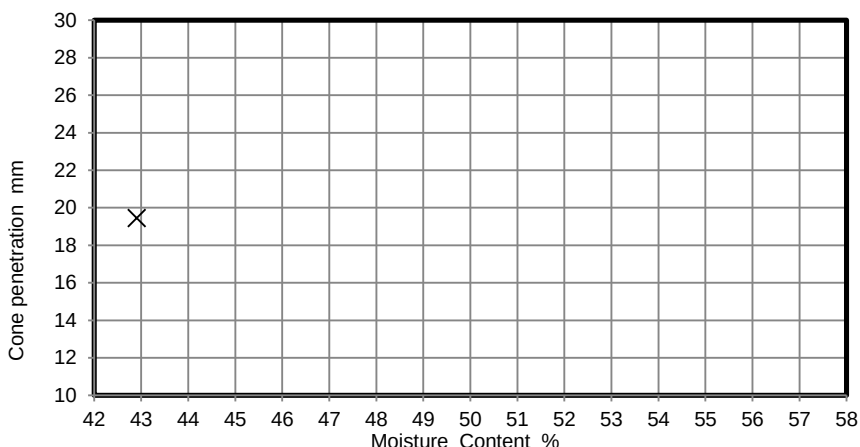
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

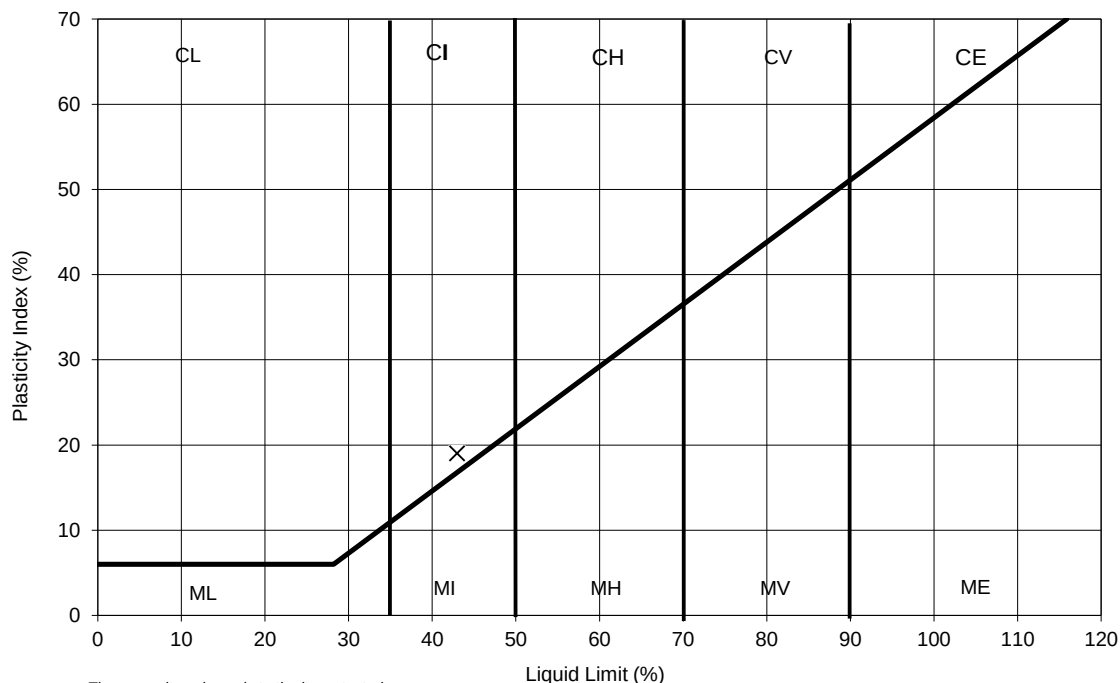
19

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

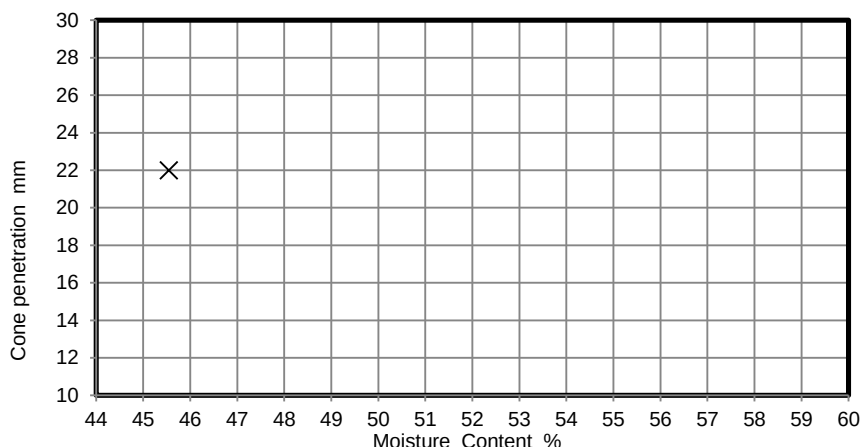
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS41
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Light grey and yellowish brown mottled silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	27/07/2022

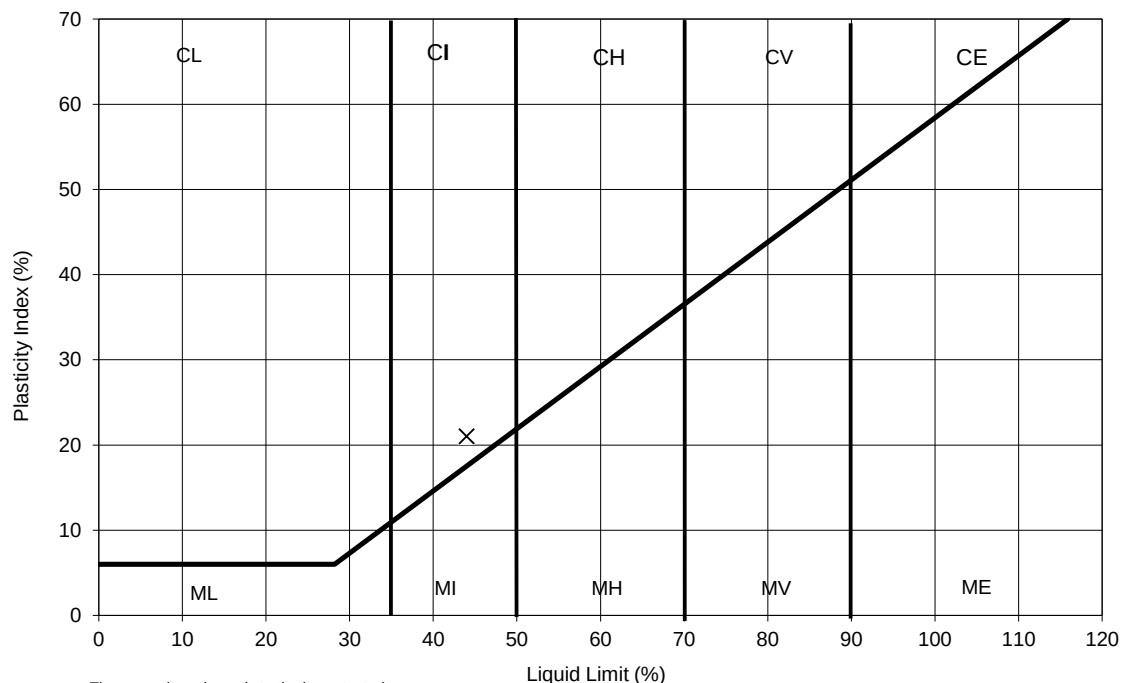


NATURAL MOISTURE CONTENT	24	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	44	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	21	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS42

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, light bluish grey and orangish brown mottled silty CLAY

Depth Base m -

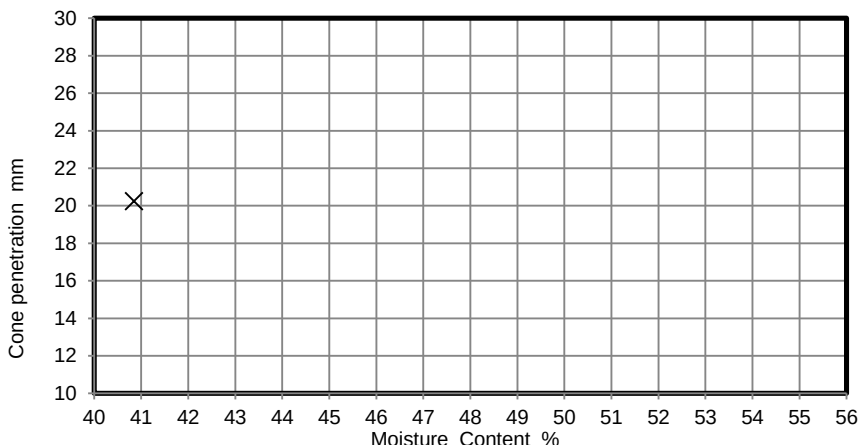
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 04/08/2022



NATURAL MOISTURE CONTENT

27

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

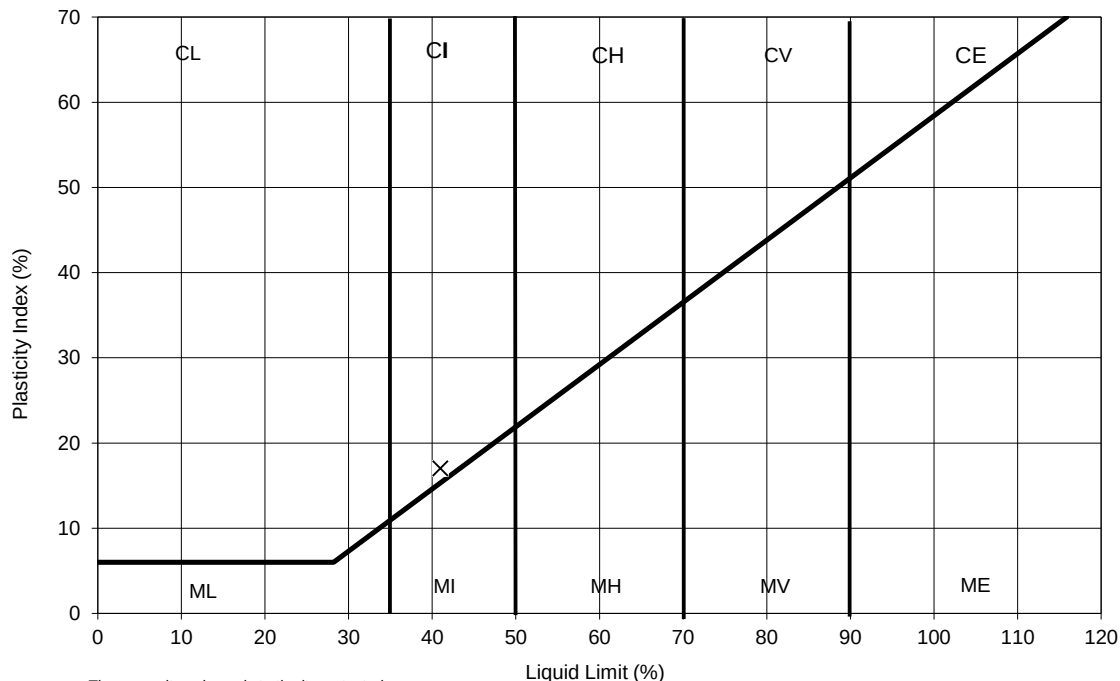
17

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS43

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown, bluish grey and orangish brown mottled silty CLAY

Depth Base m -

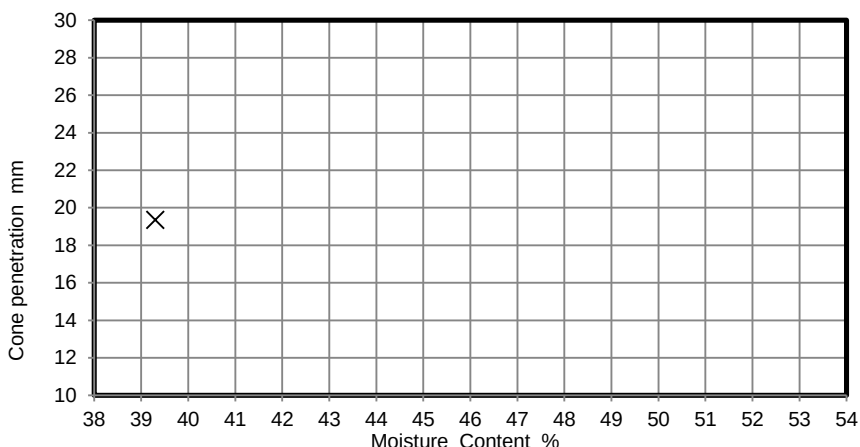
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 04/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

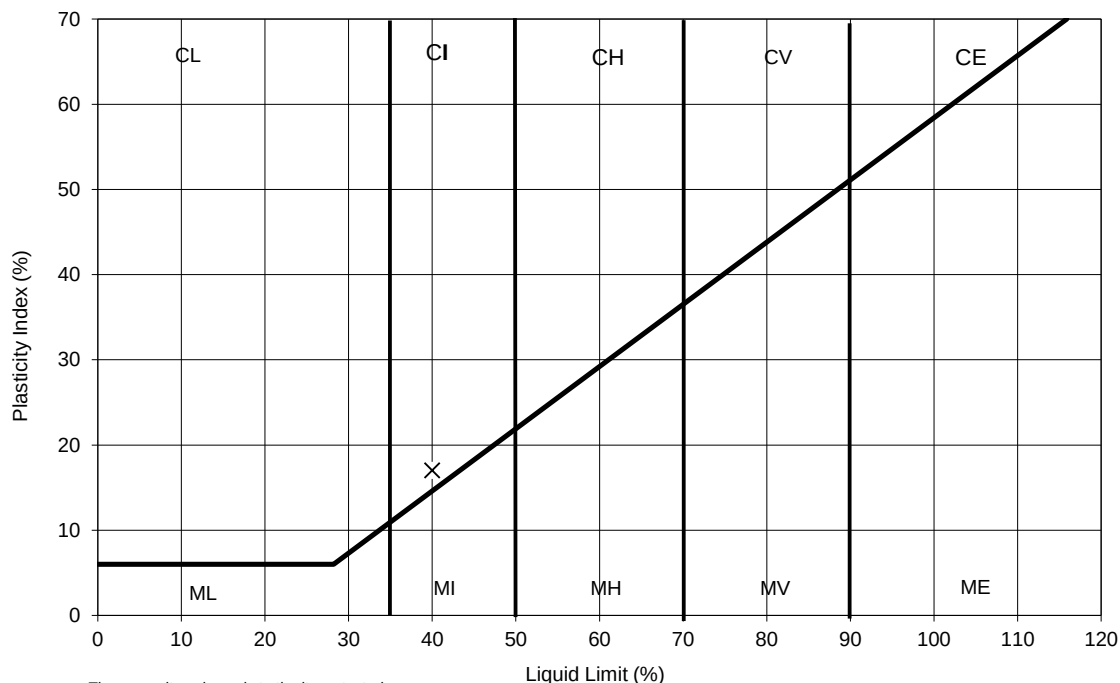
17

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS44

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description Orangish brown and light grey mottled slightly fine sandy silty CLAY

Depth Base m -

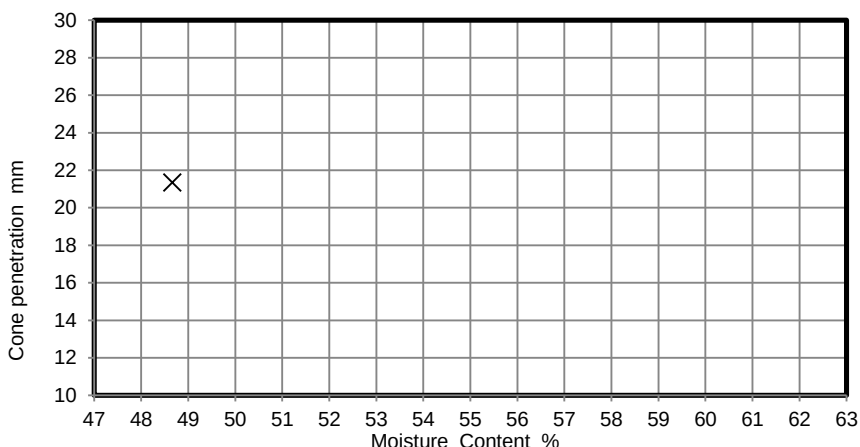
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 01/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

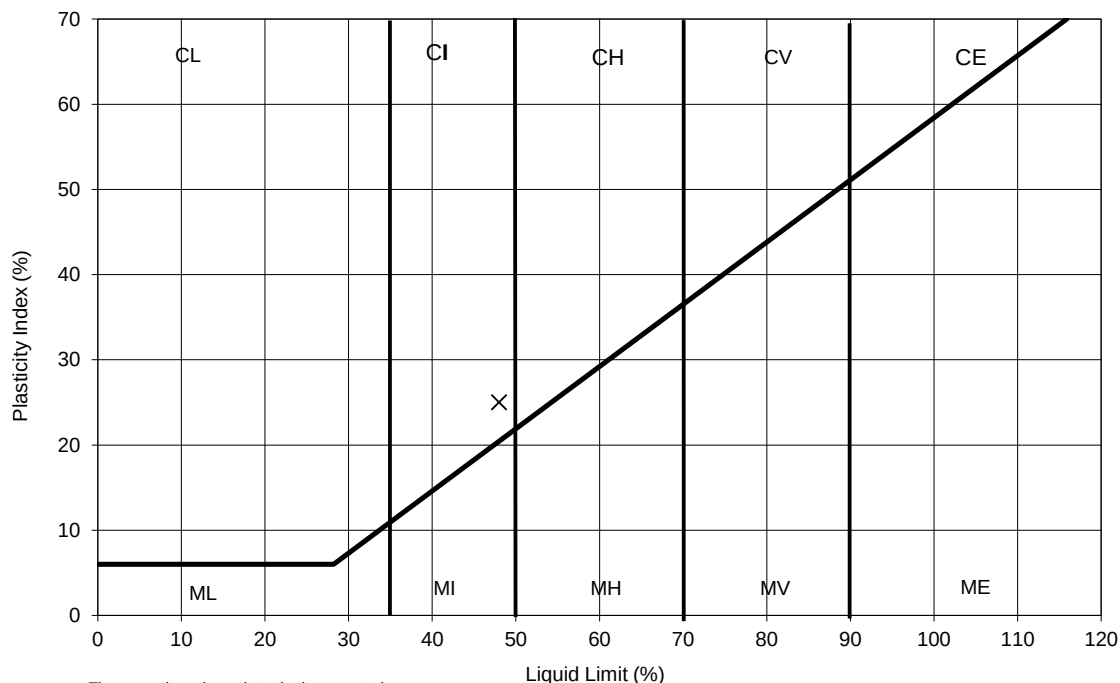
25

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS44

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description Yellowish brown and light grey silty CLAY with mudstone fragments

Depth Base m -

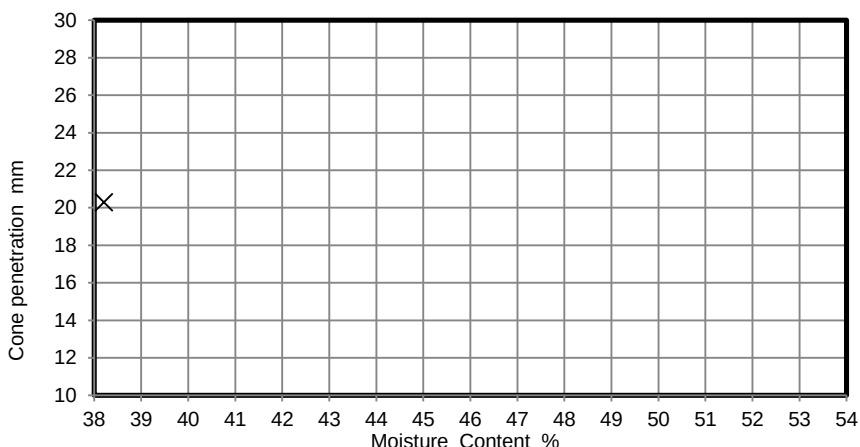
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 01/08/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

70

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

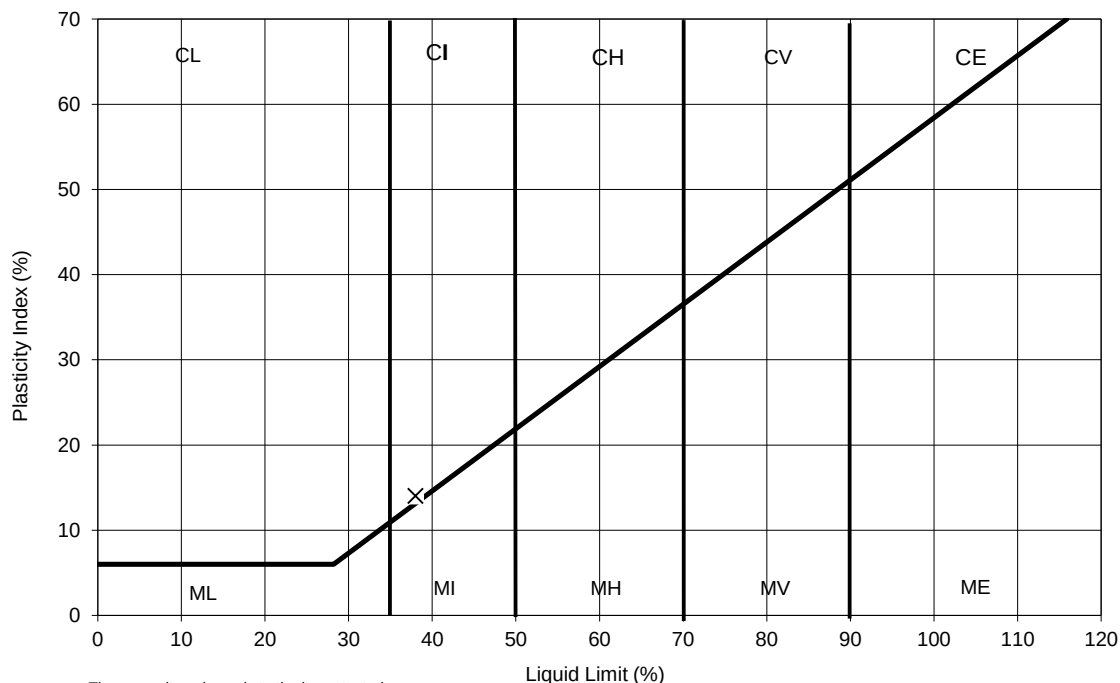
14

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

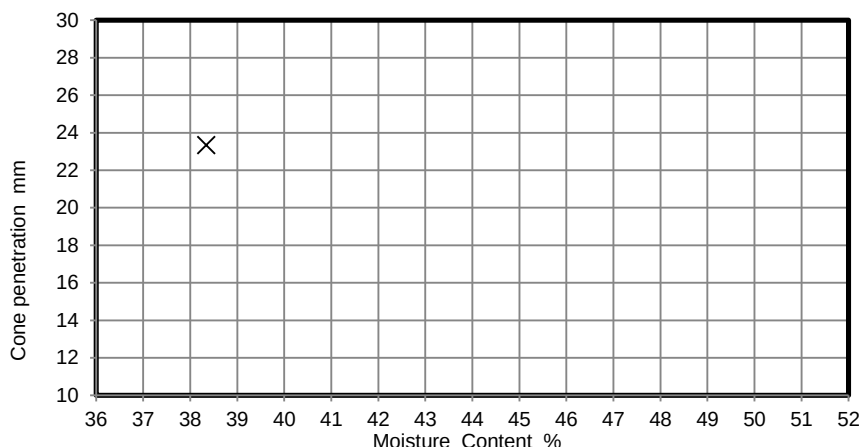
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS45
Site Name	North Horsham II			Sample No.	6
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown and light grey slightly fine sandy silty CLAY with mudstone fragments and traces of roots and rootlets			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	01/08/2022

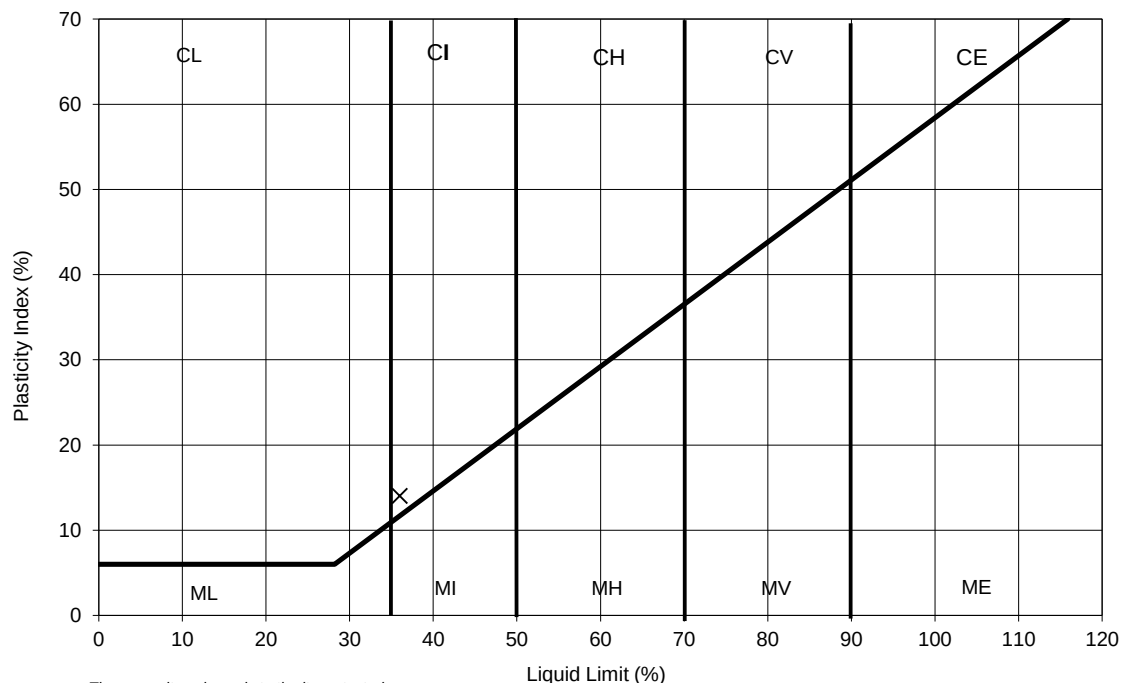


NATURAL MOISTURE CONTENT	12	%
% PASSING 425µm SIEVE	72	%
LIQUID LIMIT	36	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	14	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS46

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Light brown, bluish grey and orangish brown mottled silty CLAY

Depth Base m -

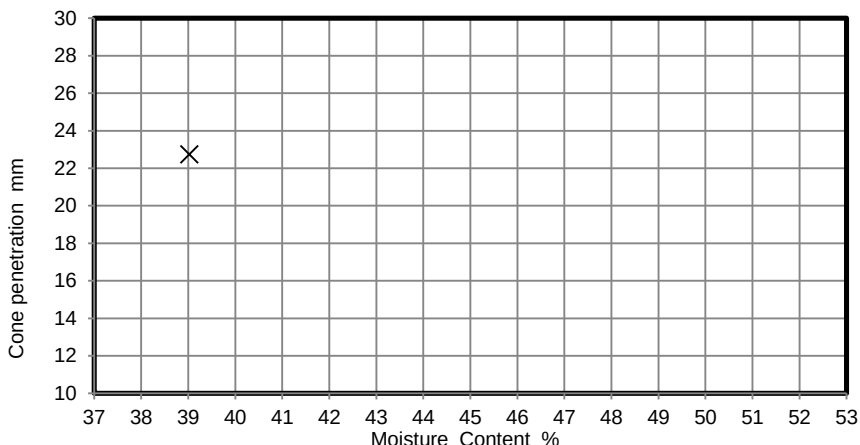
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 04/08/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

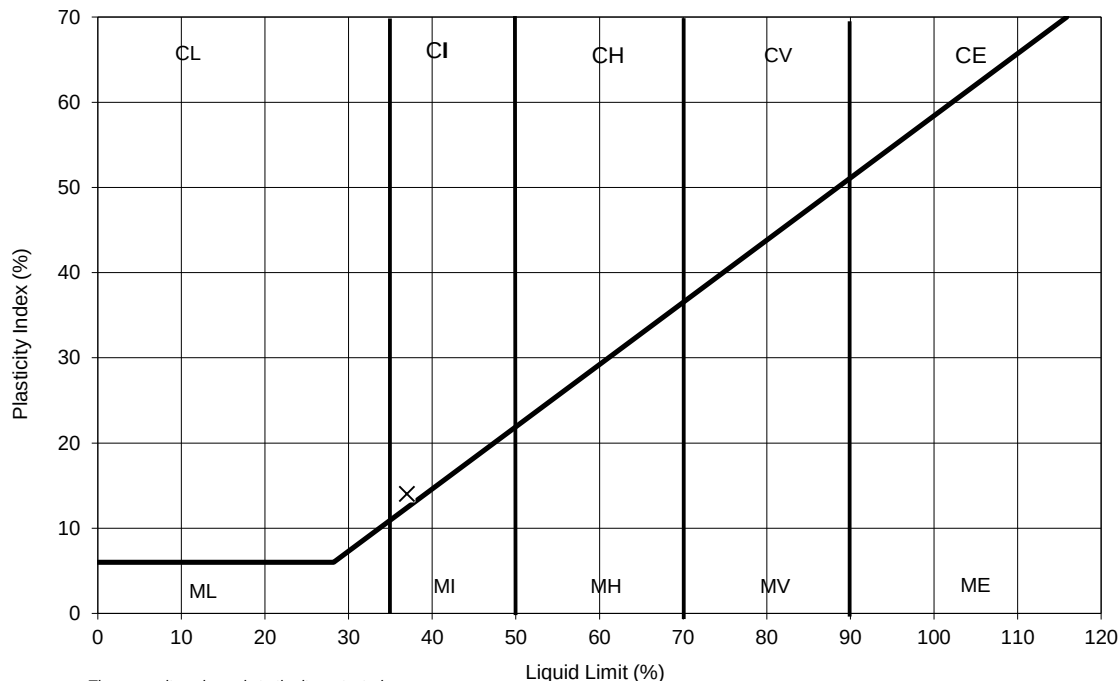
14

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS47

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown and light grey mottled silty CLAY

Depth Base m -

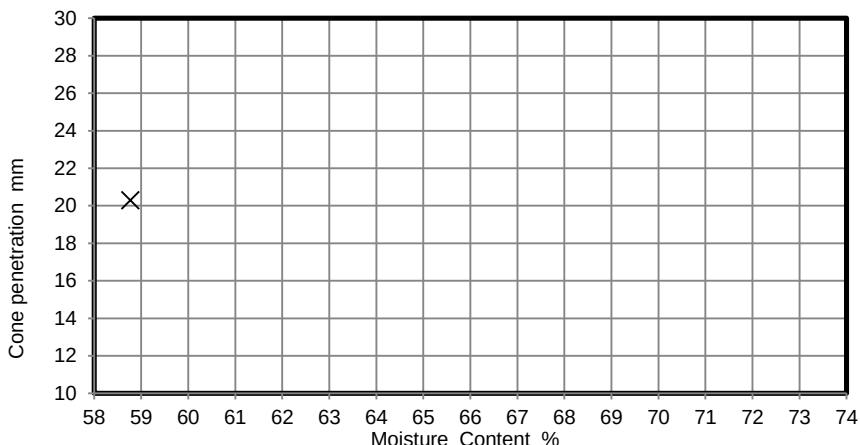
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 27/07/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

58

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

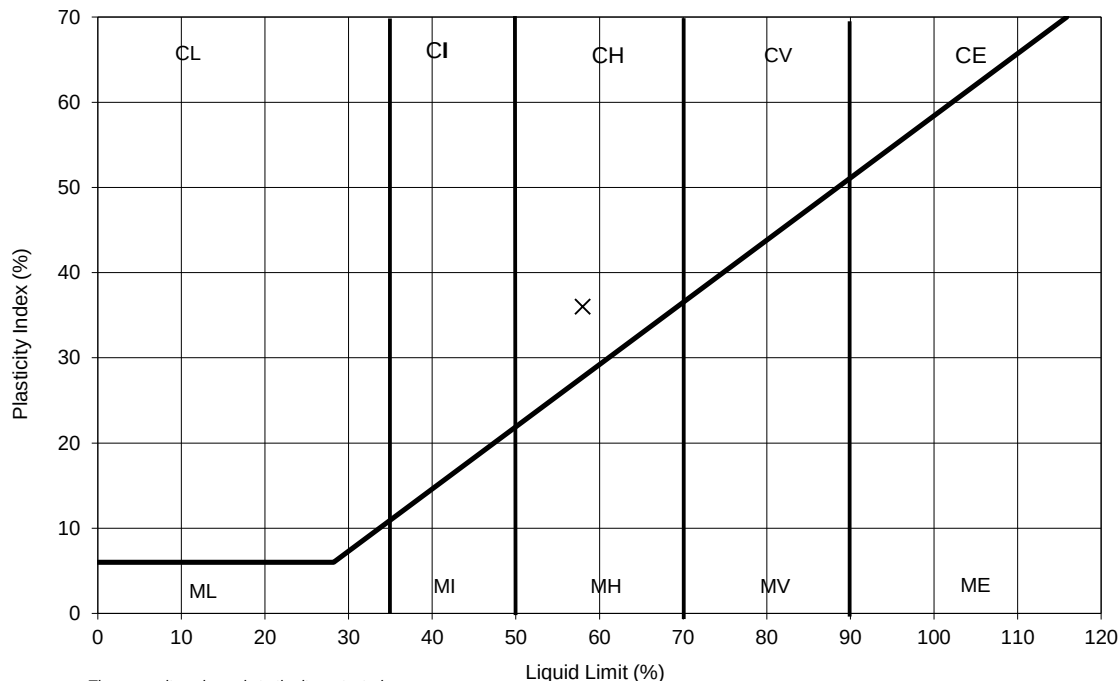
36

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS48

Site Name North Horsham II

Sample No. 7

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular weakly to strongly cemented siltstone fragments)

Depth Base m -

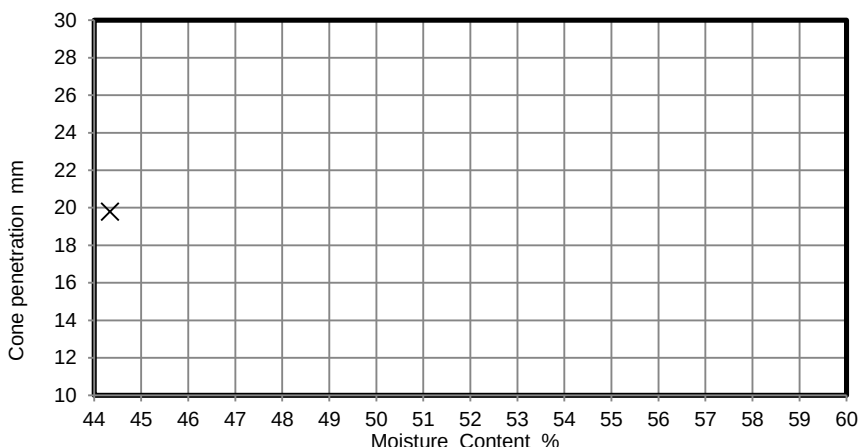
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 27/07/2022



NATURAL MOISTURE CONTENT

13

%

% PASSING 425µm SIEVE

50

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

22

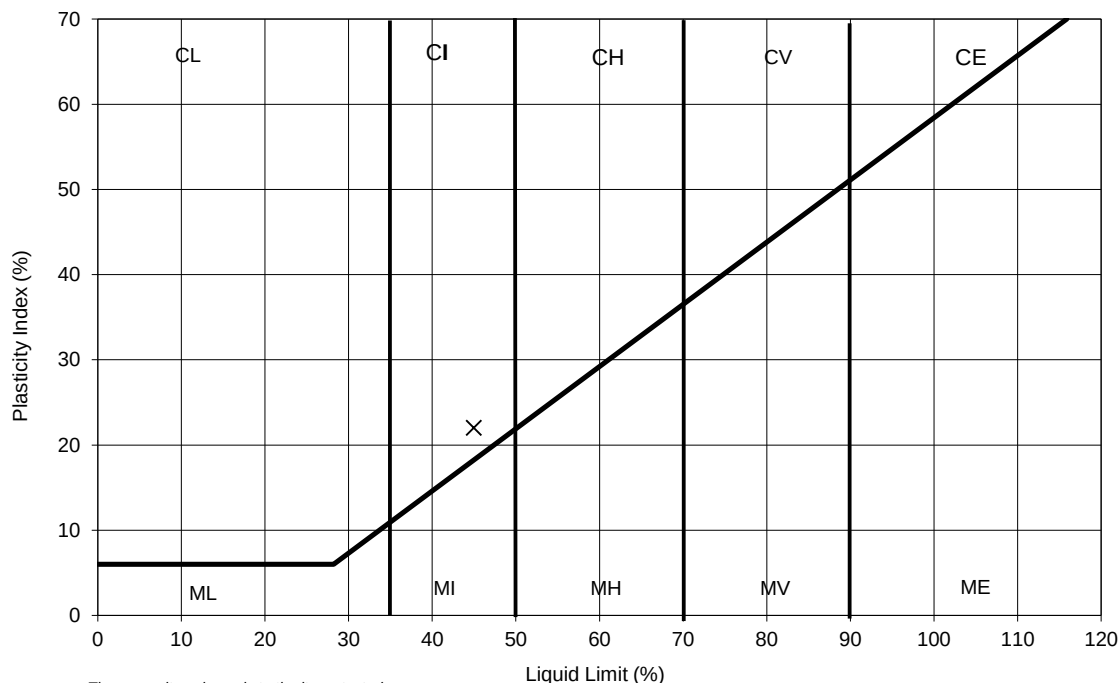
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS49

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description Yellowish brown and light grey silty CLAY with mudstone fragments

Depth Base m -

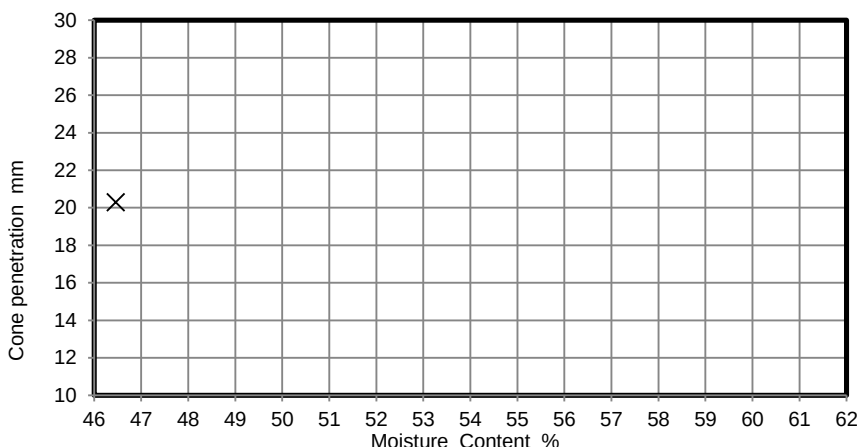
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 01/08/2022



NATURAL MOISTURE CONTENT

8.7

%

% PASSING 425µm SIEVE

73

%

LIQUID LIMIT

46

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

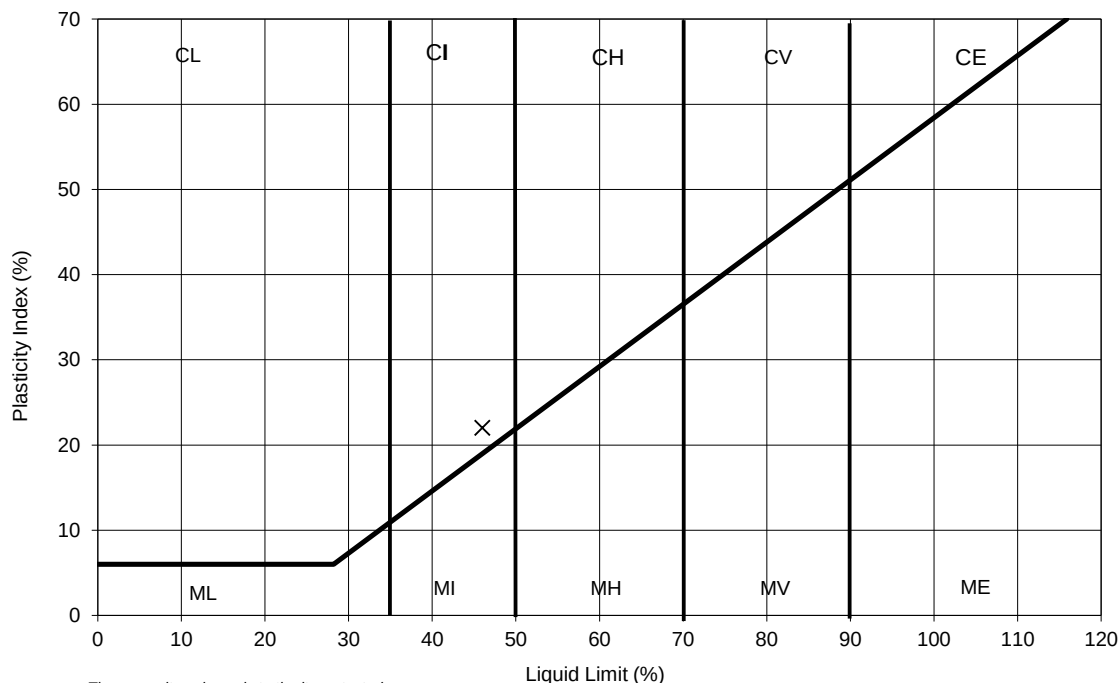
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS50

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and yellowish brown silty CLAY with numerous mudstone fragments

Depth Base m -

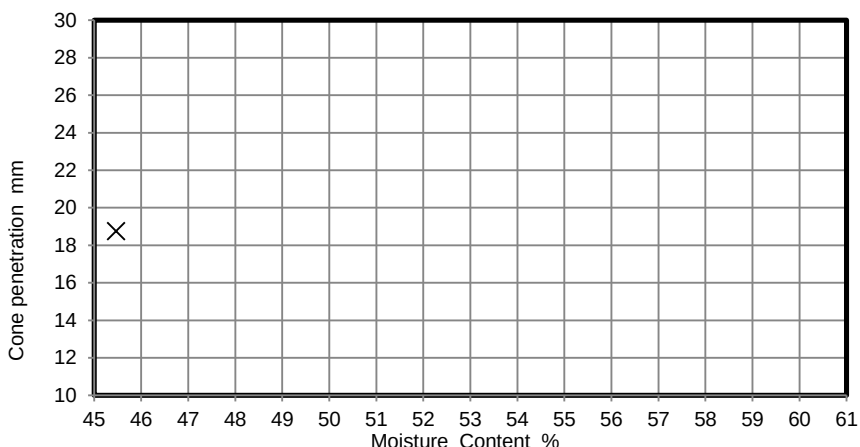
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 02/08/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

46

%

LIQUID LIMIT

47

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

23

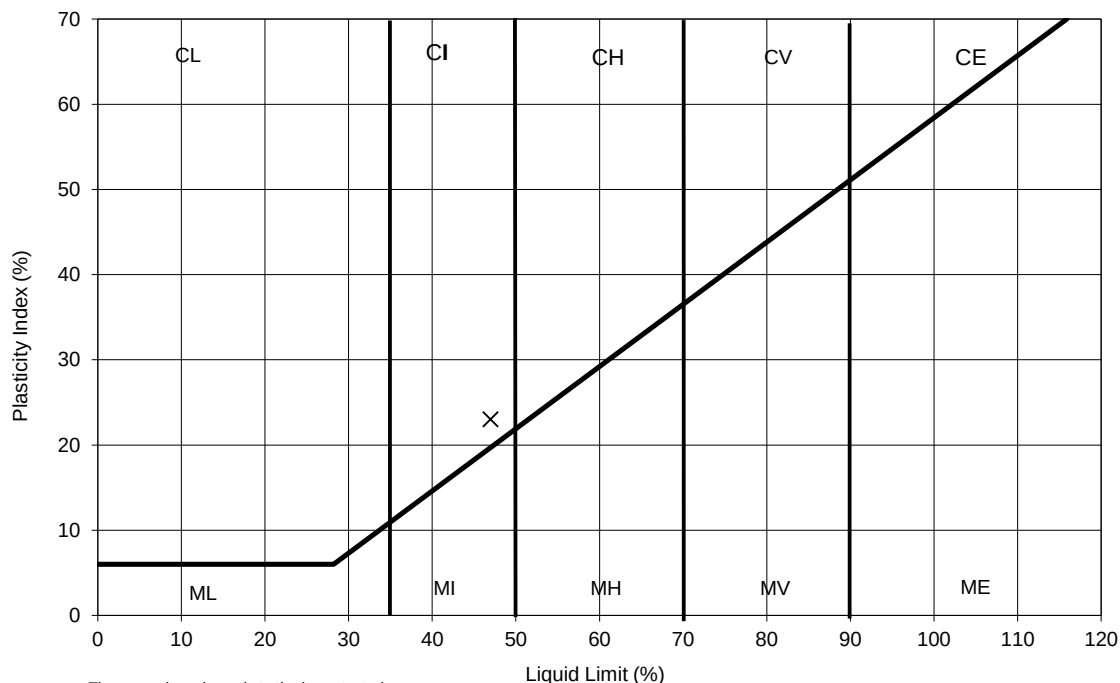
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS51

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey silty CLAY

Depth Base m -

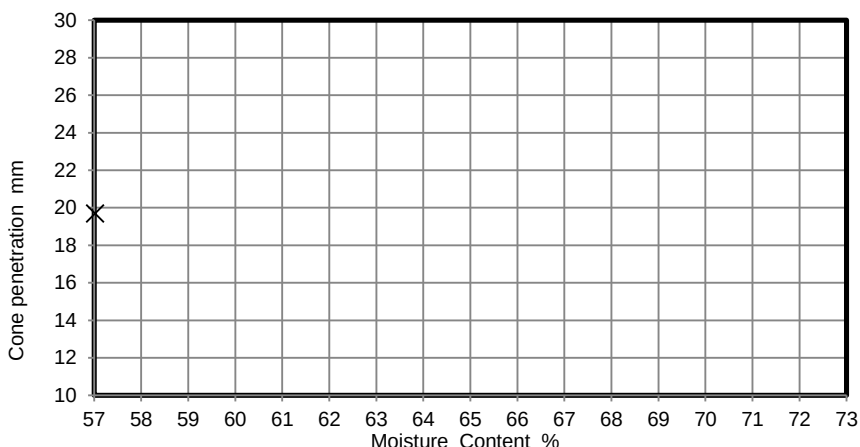
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

57

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

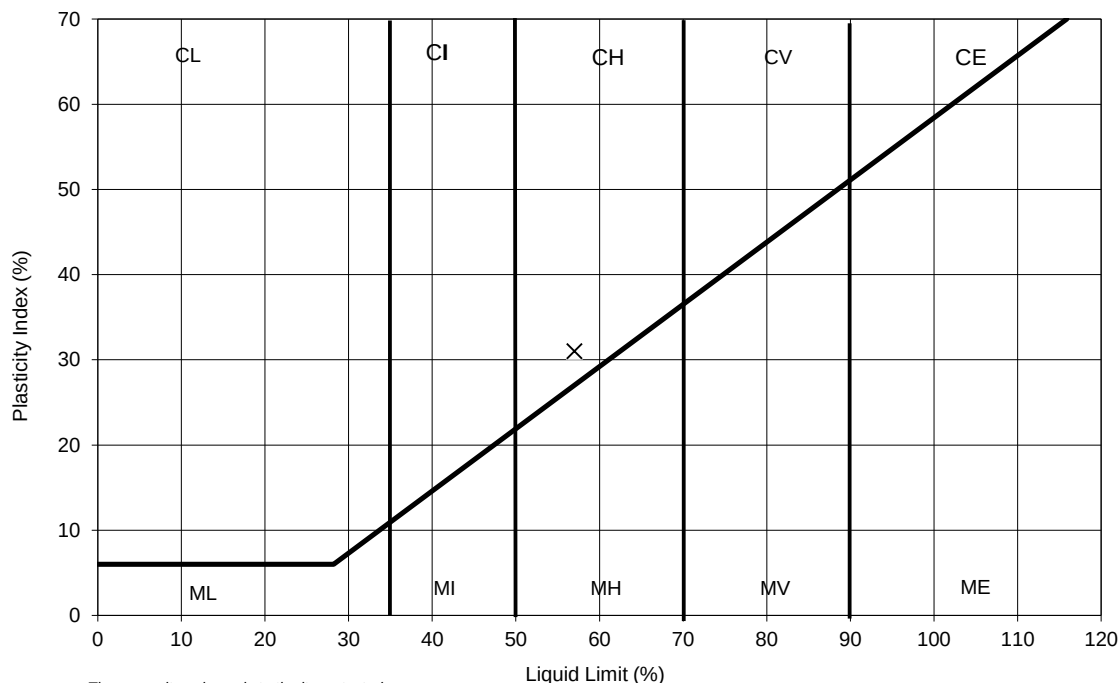
31

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

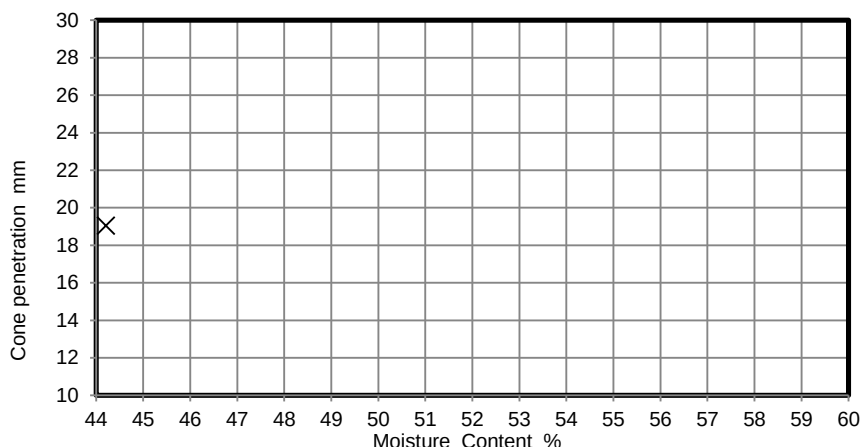
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS52
Site Name	North Horsham II			Sample No.	6
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Light brown slightly gravelly silty CLAY (gravel is fmc sub-angular siltstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	16/08/2022



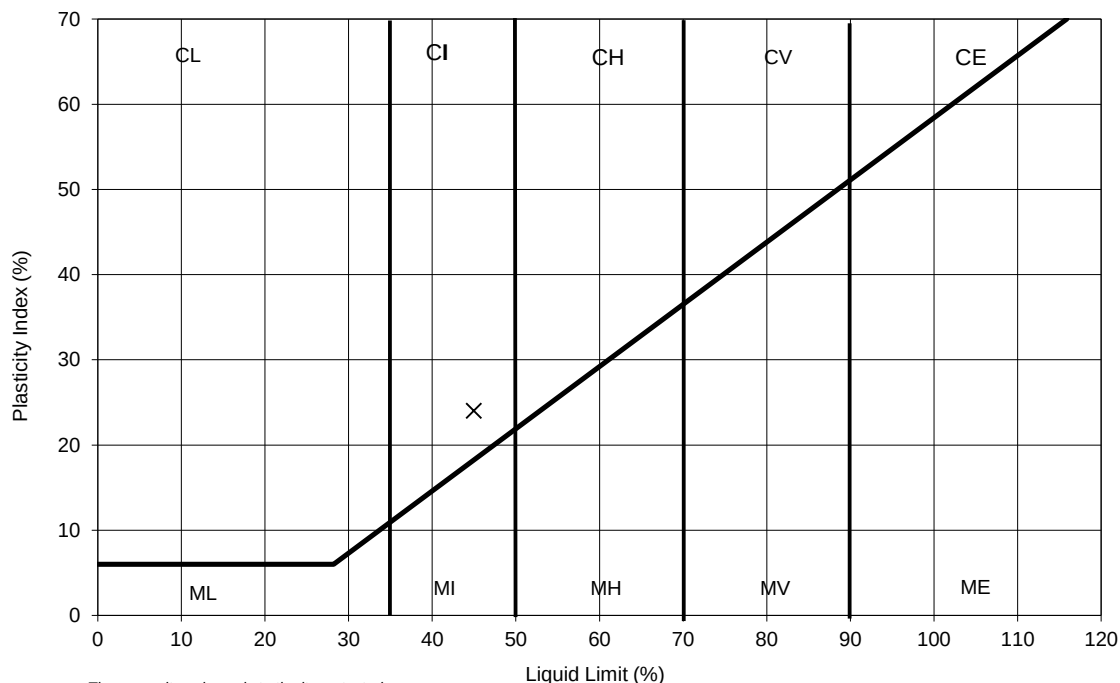
NATURAL MOISTURE CONTENT	13	%
% PASSING 425µm SIEVE	42	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	21	%
PLASTICITY INDEX	24	%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS53

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Orangish brown and light grey slightly fine sandy silty CLAY with mudstone fragments

Depth Base m -

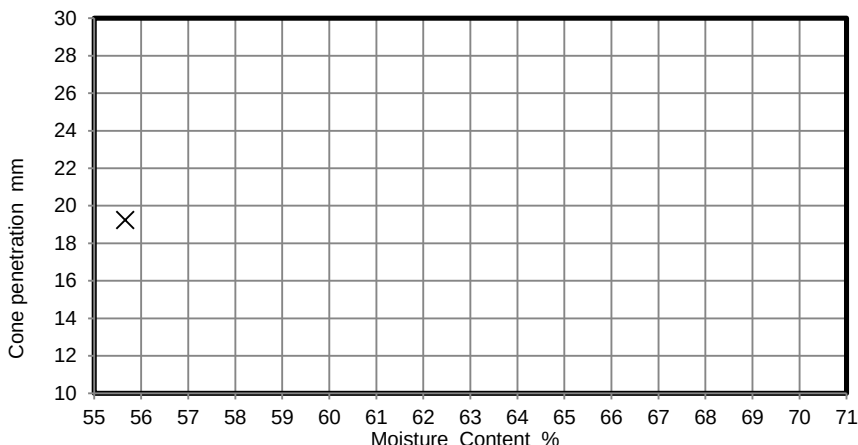
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 01/08/2022



NATURAL MOISTURE CONTENT

12

%

% PASSING 425µm SIEVE

72

%

LIQUID LIMIT

56

%

PLASTIC LIMIT

27

%

PLASTICITY INDEX

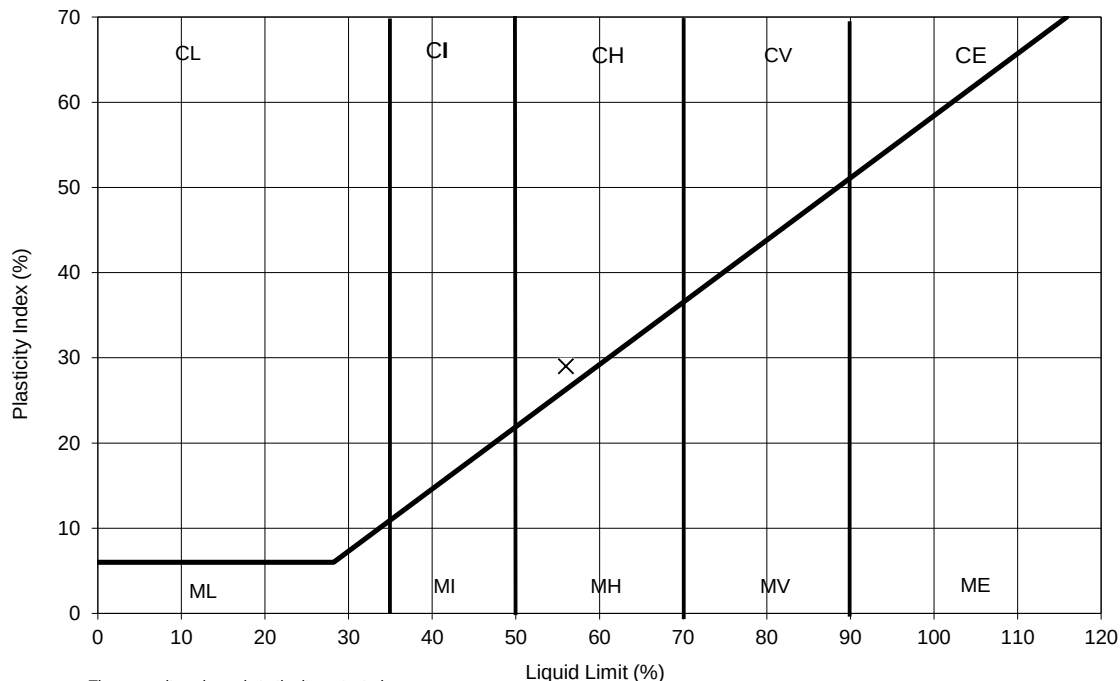
29

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS54

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Brown silty CLAY with occasional rootlets

Depth Base m -

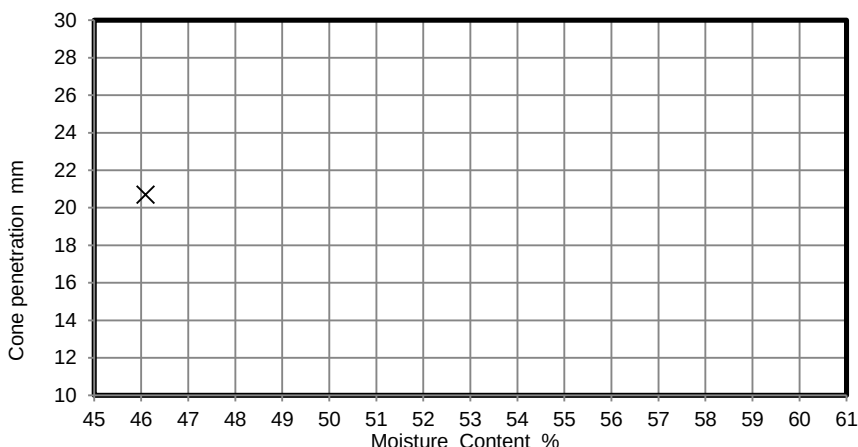
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

46

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

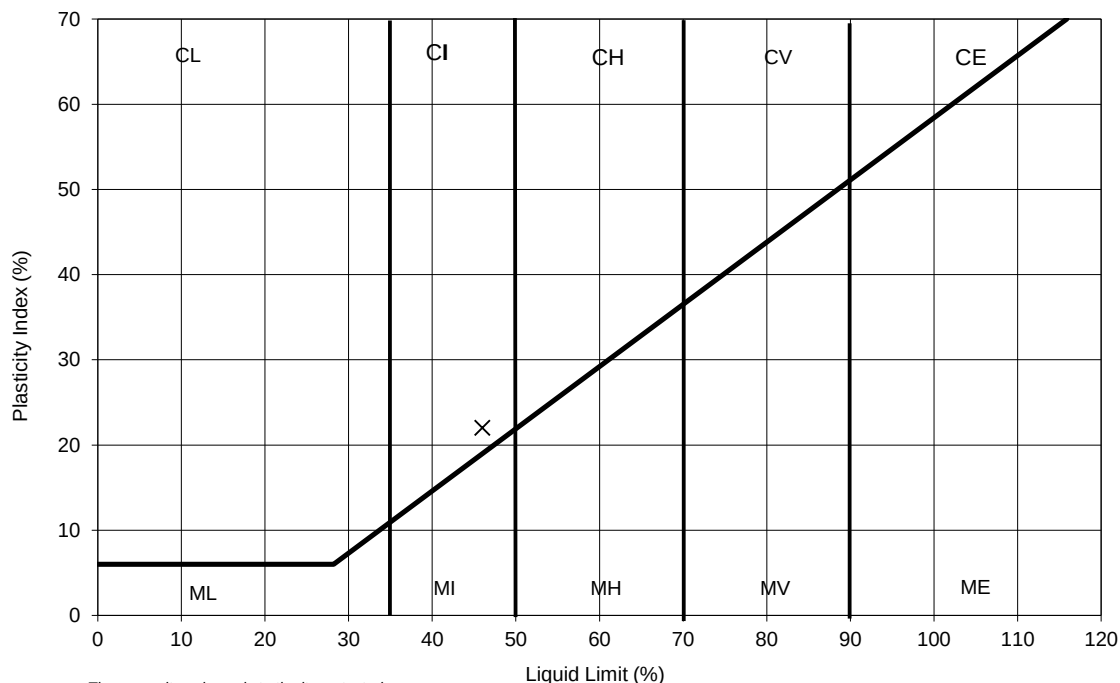
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

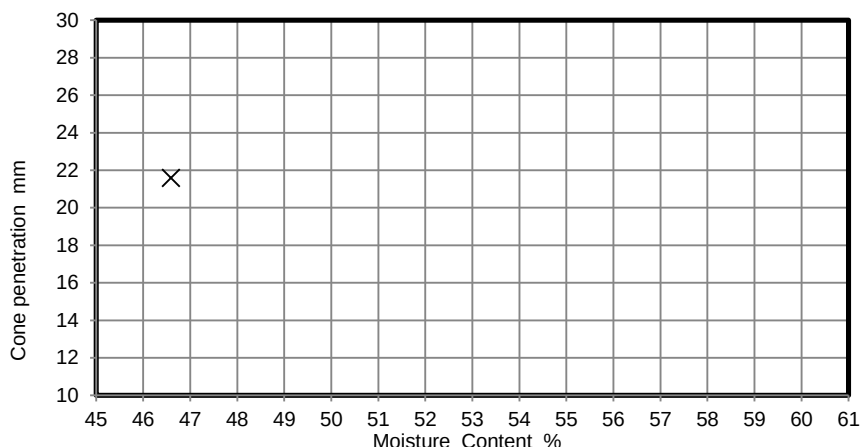
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS54
Site Name	North Horsham II			Sample No.	5
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Brown and light grey slightly gravelly silty CLAY (gravel is fm sub-angular siltstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	16/08/2022

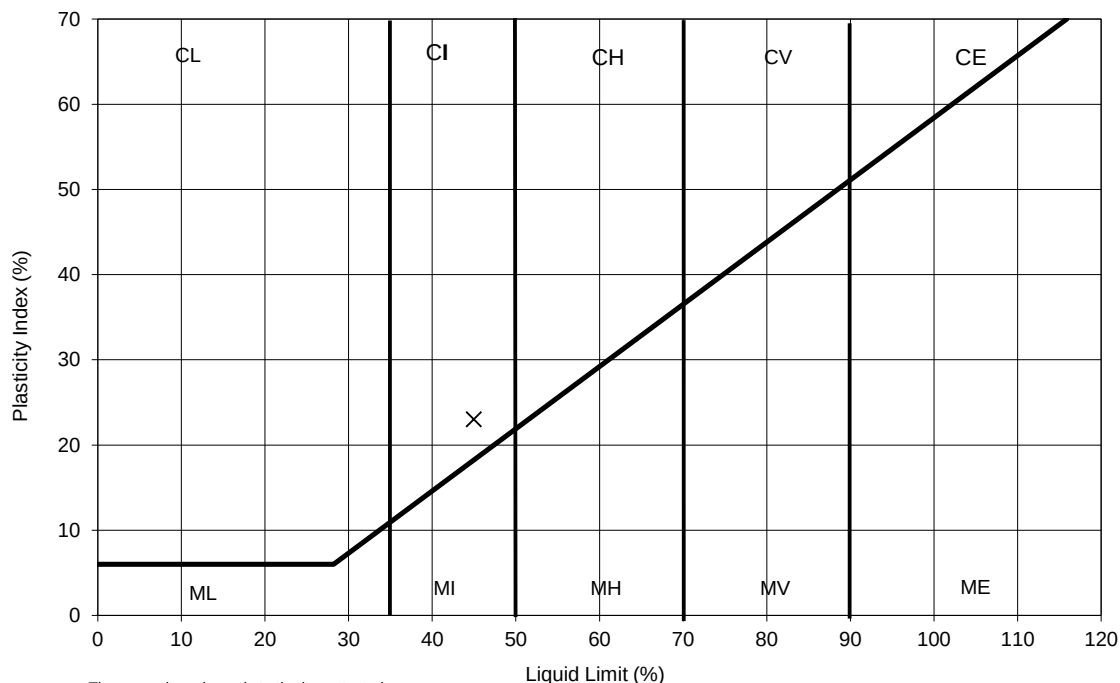


NATURAL MOISTURE CONTENT	18	%
% PASSING 425µm SIEVE	95	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	23	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS55

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Grey and brown slightly sandy laminated silty CLAY with numerous fm mudstone fragments

Depth Base m -

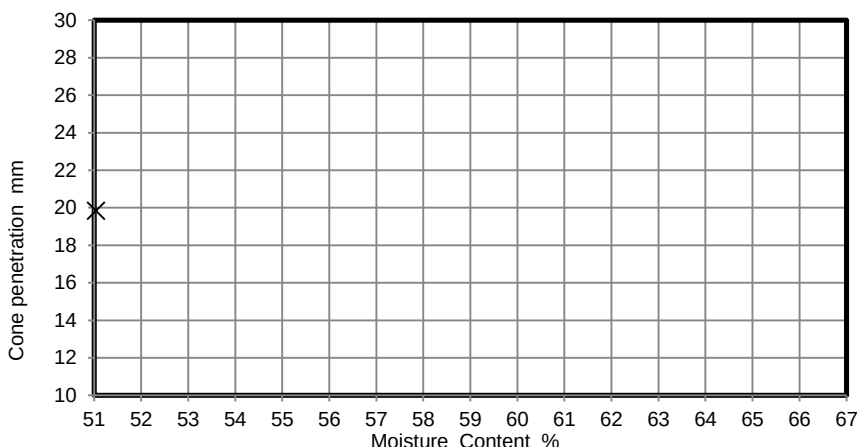
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

81

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

21

%

PLASTICITY INDEX

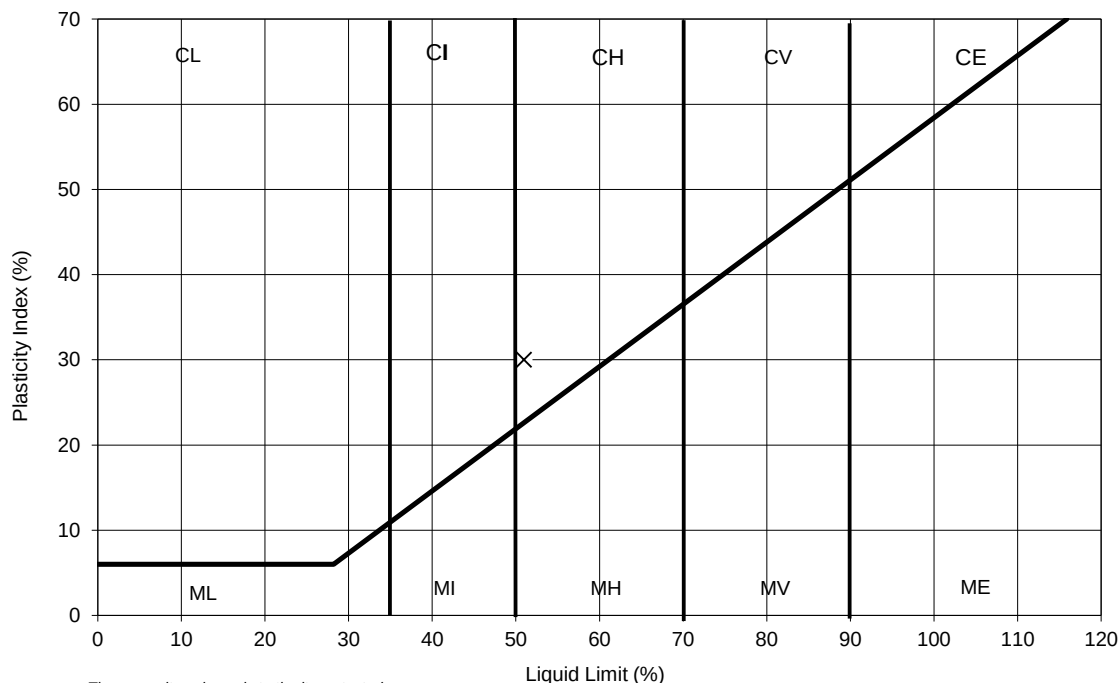
30

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS56

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, light grey and orangish brown silty CLAY

Depth Base m -

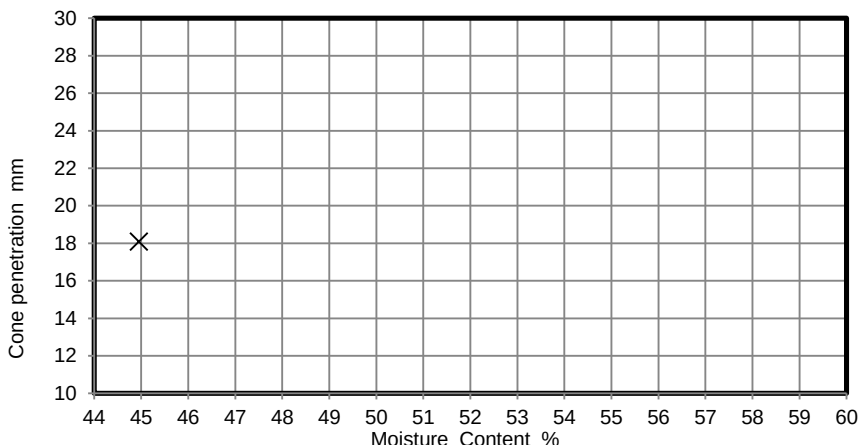
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 18/08/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

47

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

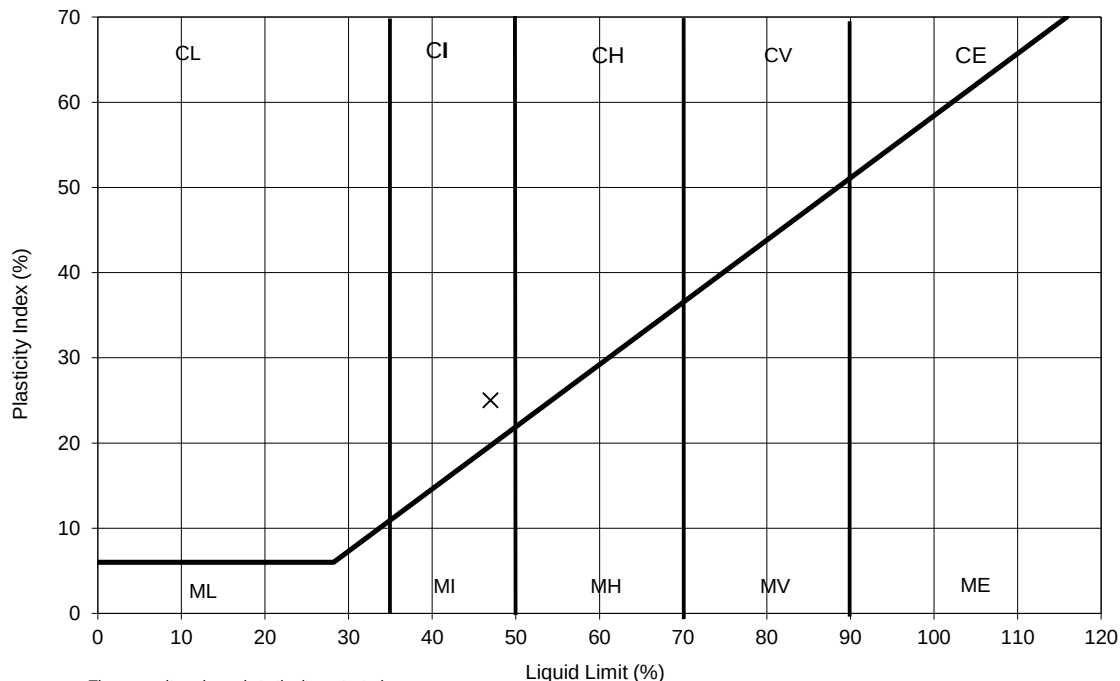
25

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS57

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey mottled very silty CLAY

Depth Base m -

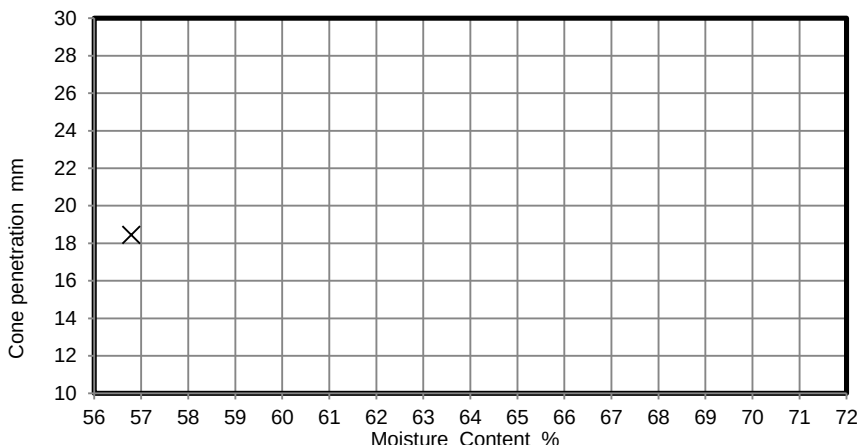
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

58

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

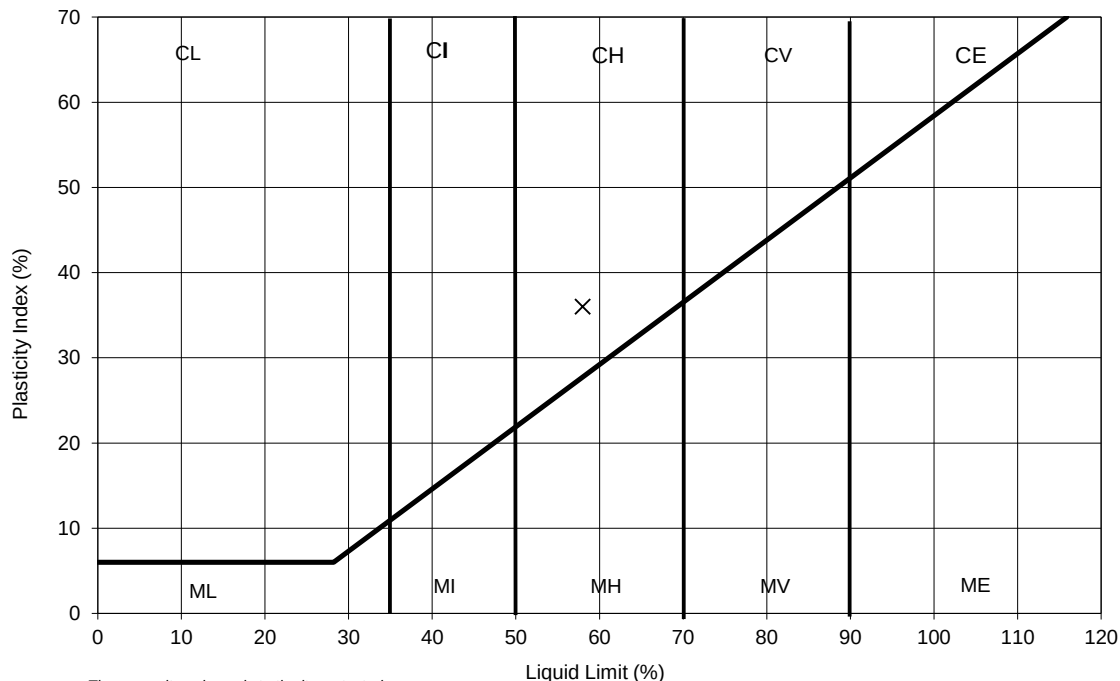
36

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS58

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description Light grey, orangish brown and reddish brown silty CLAY

Depth Base m -

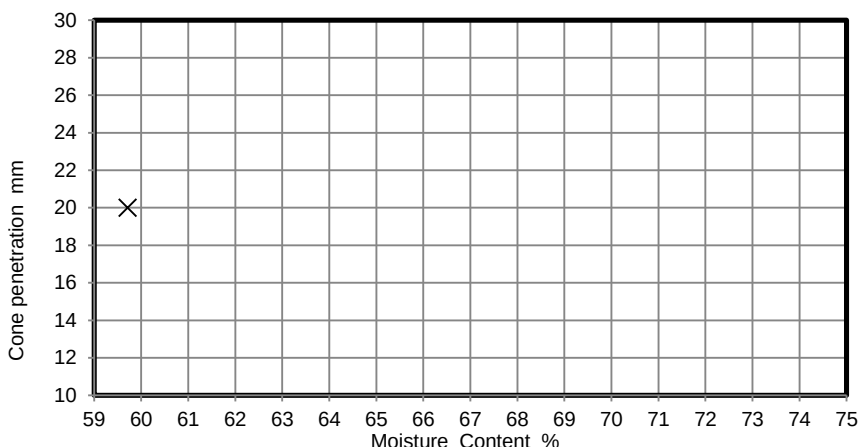
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

31

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

60

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

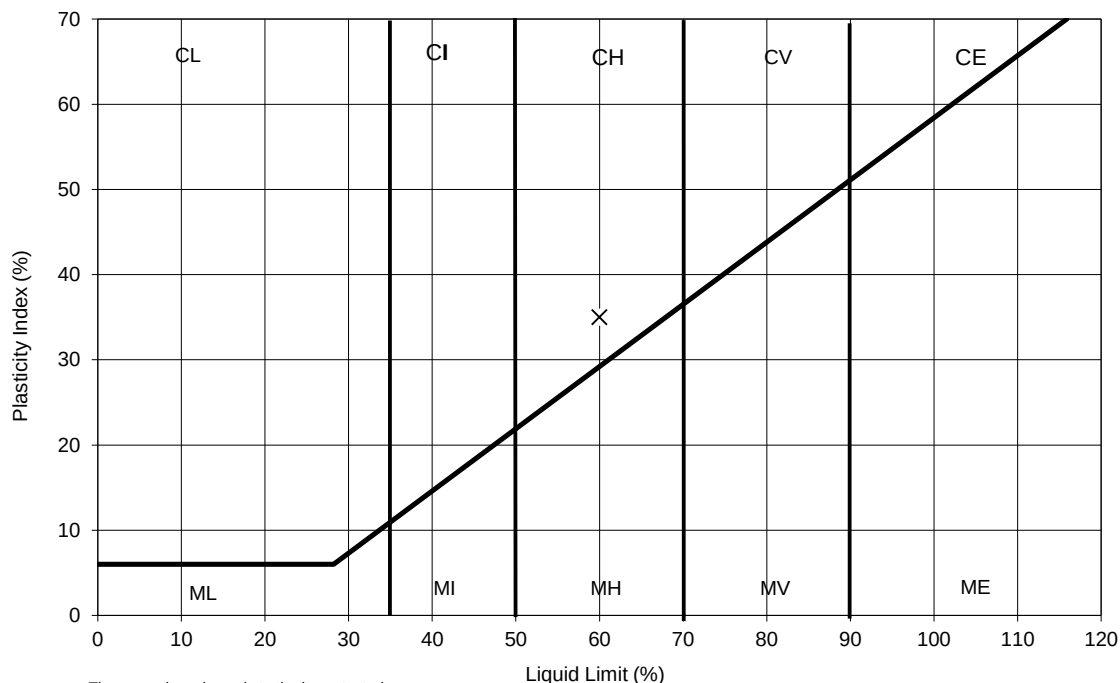
35

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS59

Site Name North Horsham II

Sample No. 4

Project No. GE20724 Client GESL

Depth Top m 1.00

Soil Description Reddish brown and light grey very silty CLAY

Depth Base m -

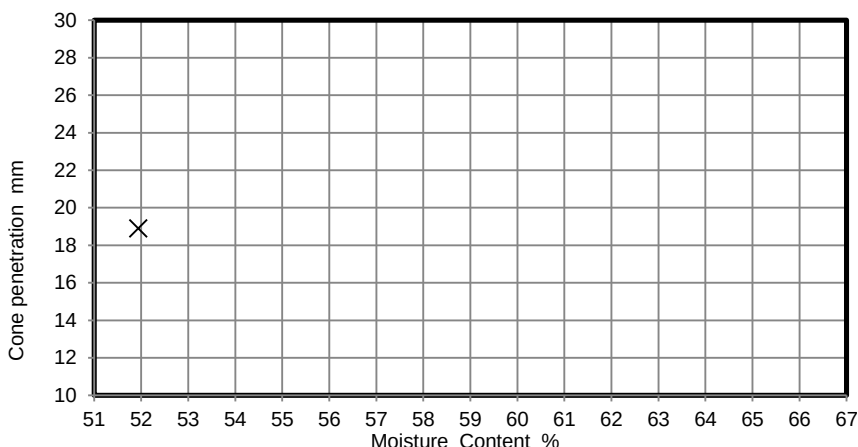
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022

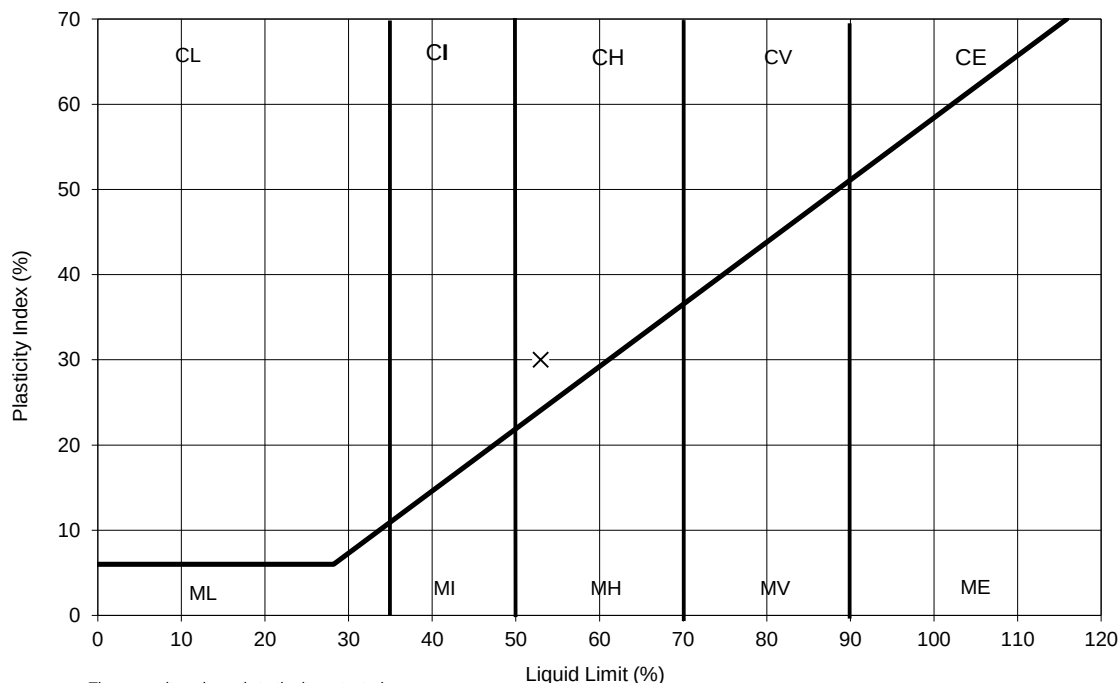


NATURAL MOISTURE CONTENT	22	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	53	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	30	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS60

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, orange brown and light grey slightly gravelly silty CLAY (gravel is fm sub-angular siltstone fragments)

Depth Base m -

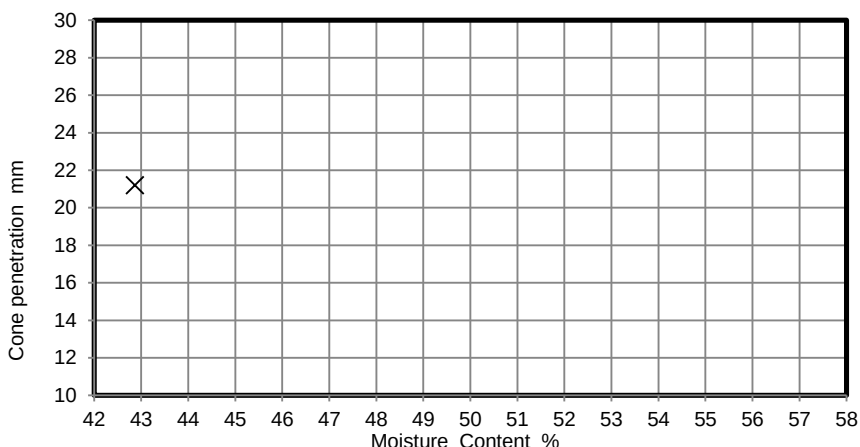
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

92

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

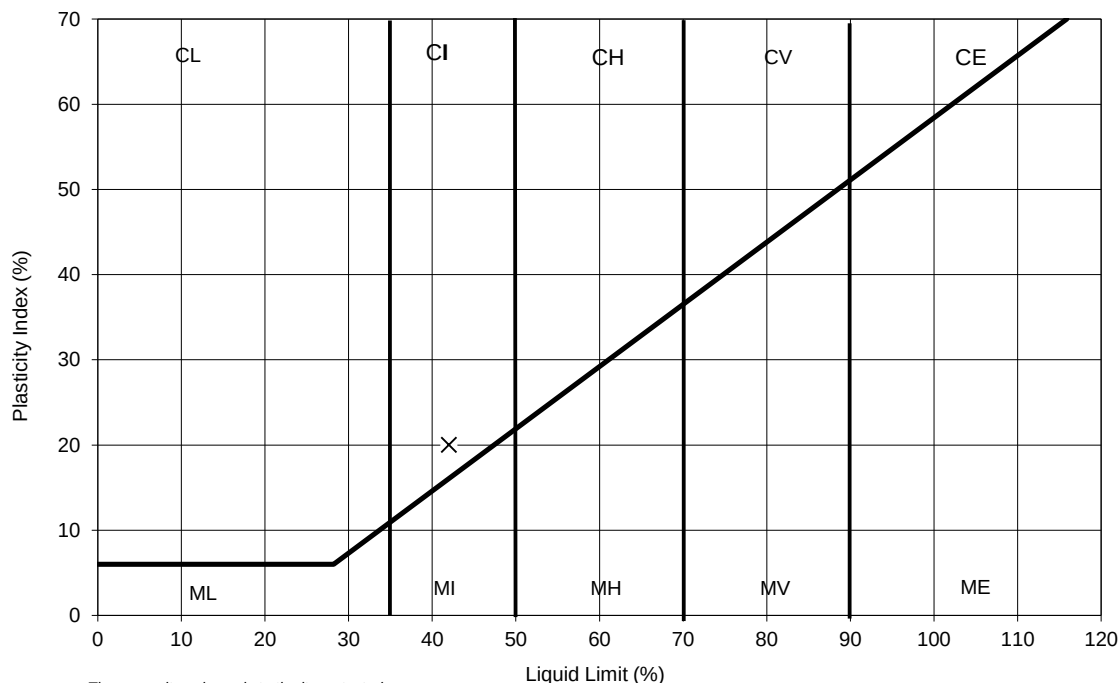
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS61

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown silty CLAY with numerous siltstone fragments

Depth Base m -

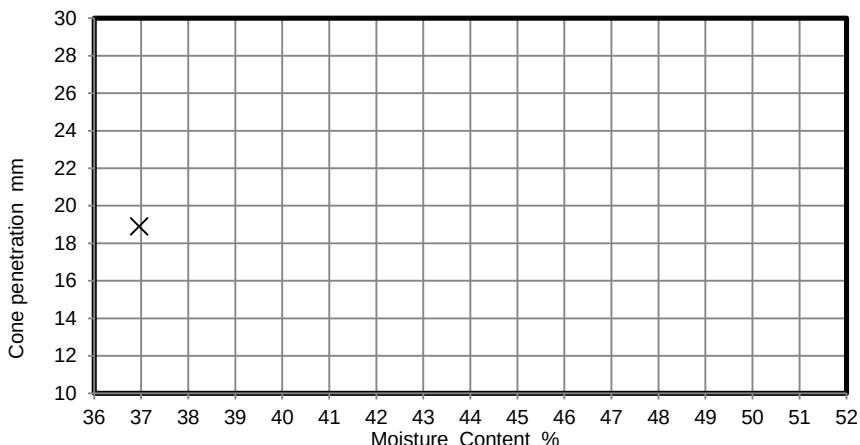
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

13

%

% PASSING 425µm SIEVE

82

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

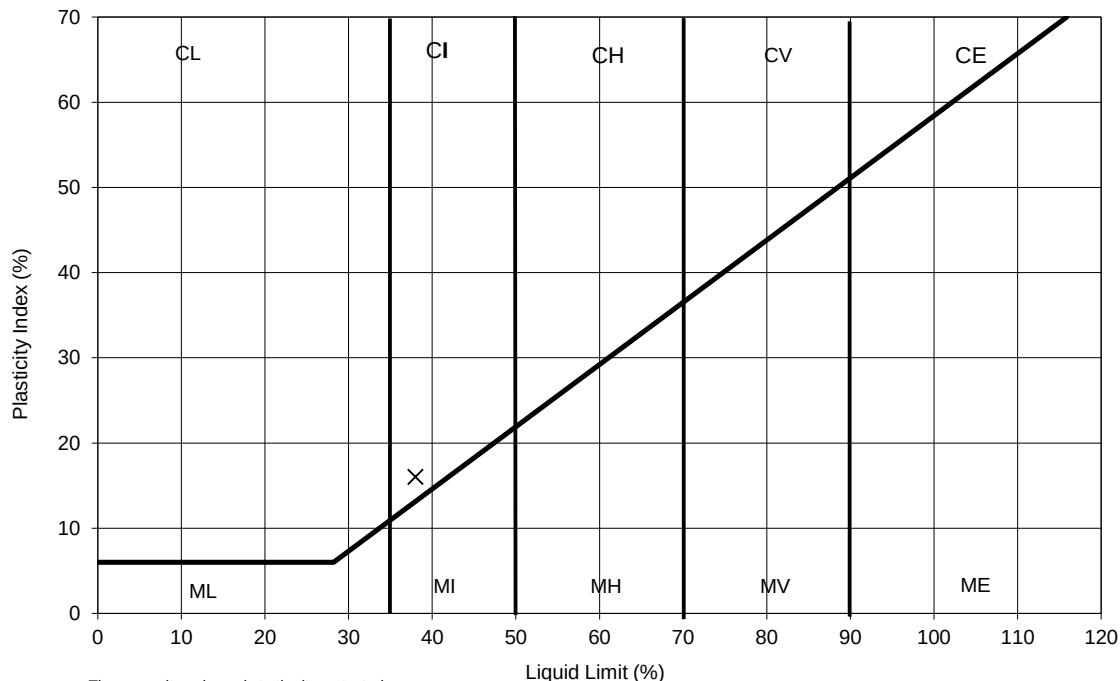
16

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS62

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Yellowish brown and light grey silty CLAY

Depth Base m -

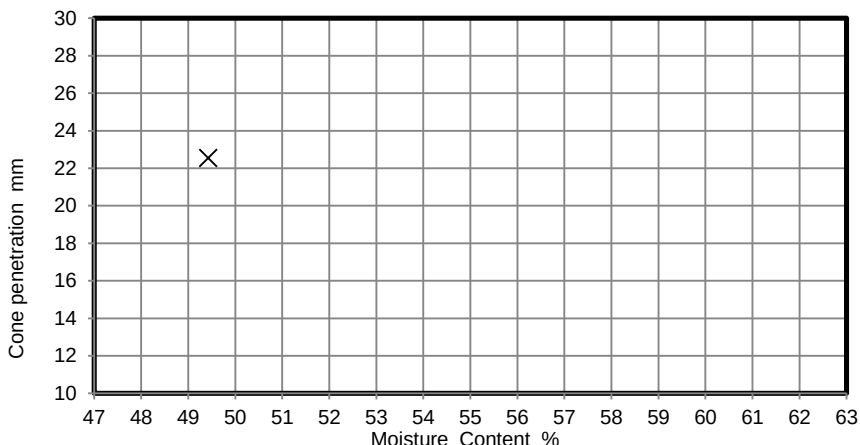
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

47

%

PLASTIC LIMIT

21

%

PLASTICITY INDEX

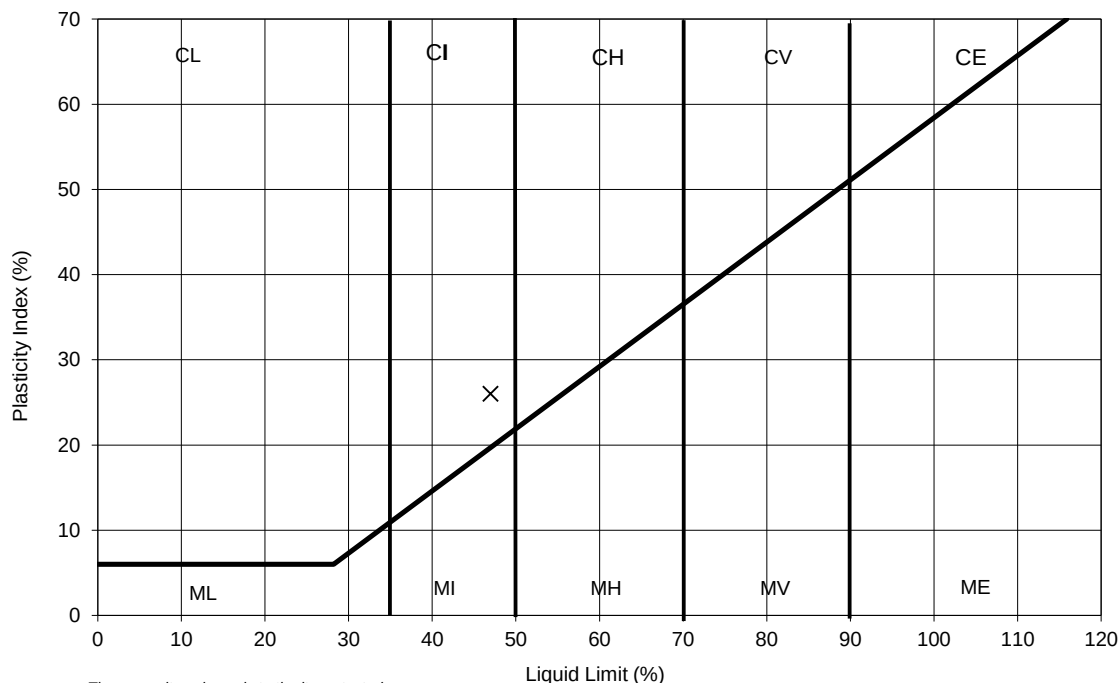
26

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS63

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey silty CLAY with rare fm siltstone fragments

Depth Base m -

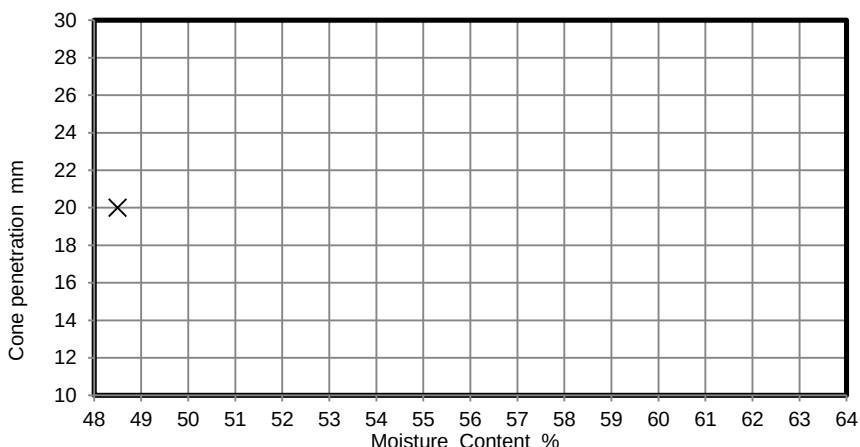
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 15/08/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

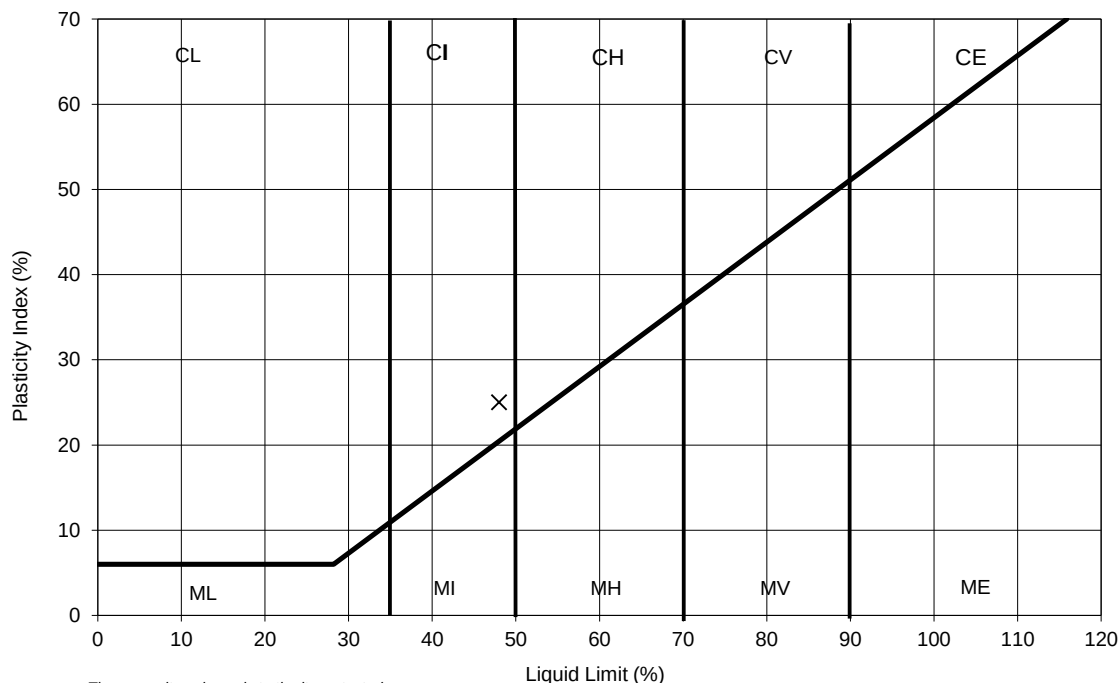
25

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS64

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Yellowish brown and light grey mottled very silty CLAY

Depth Base m -

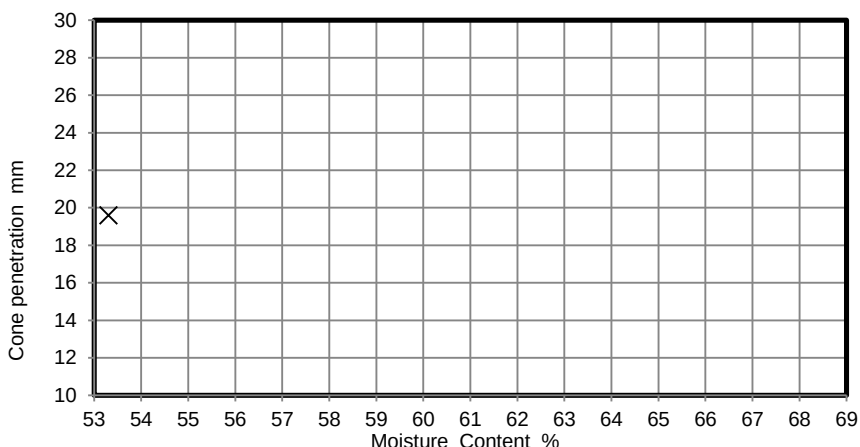
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 18/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

54

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

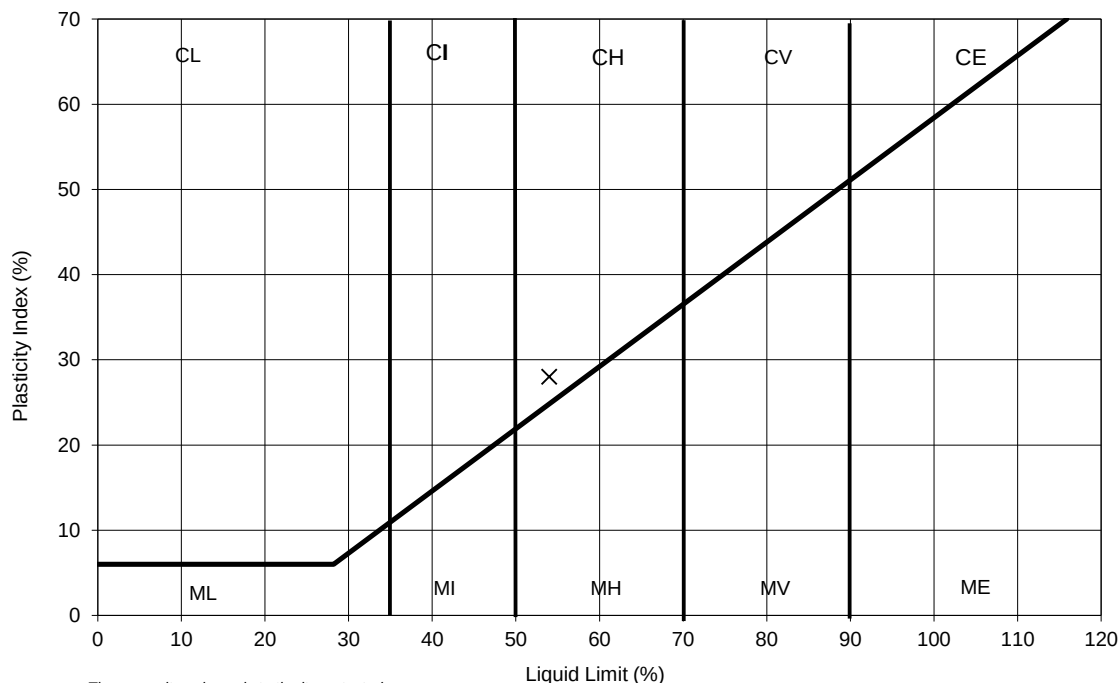
28

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS65

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey mottled very silty CLAY

Depth Base m -

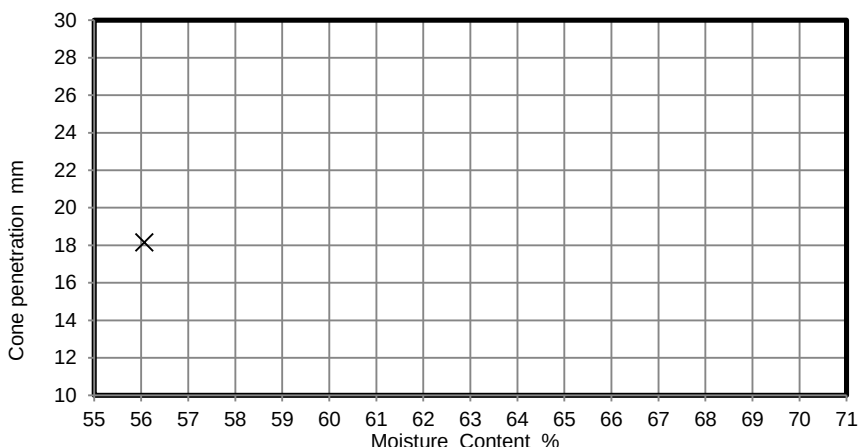
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

58

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

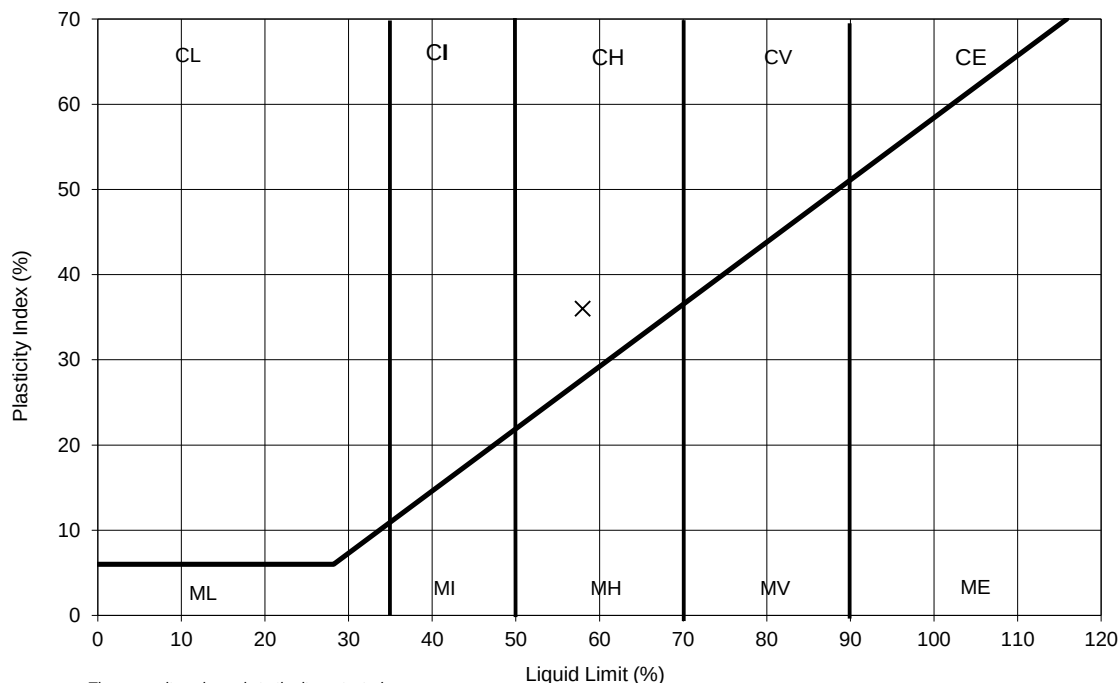
36

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS66

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown silty CLAY with siltstone fragments

Depth Base m -

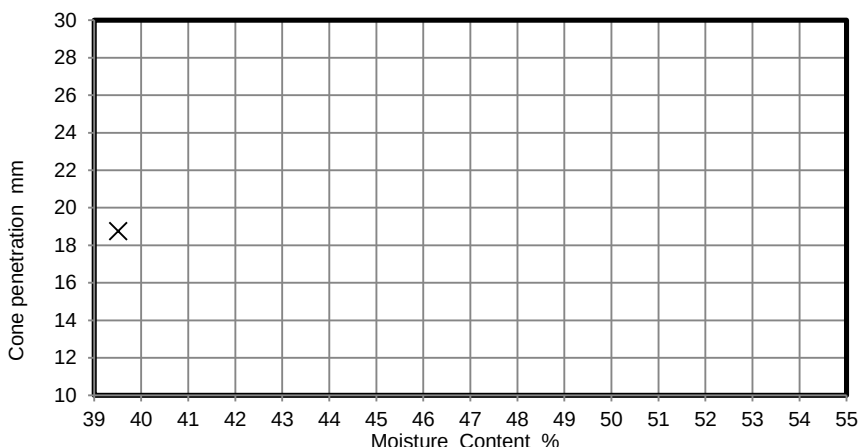
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 09/08/2022



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

42

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

20

%

PLASTICITY INDEX

20

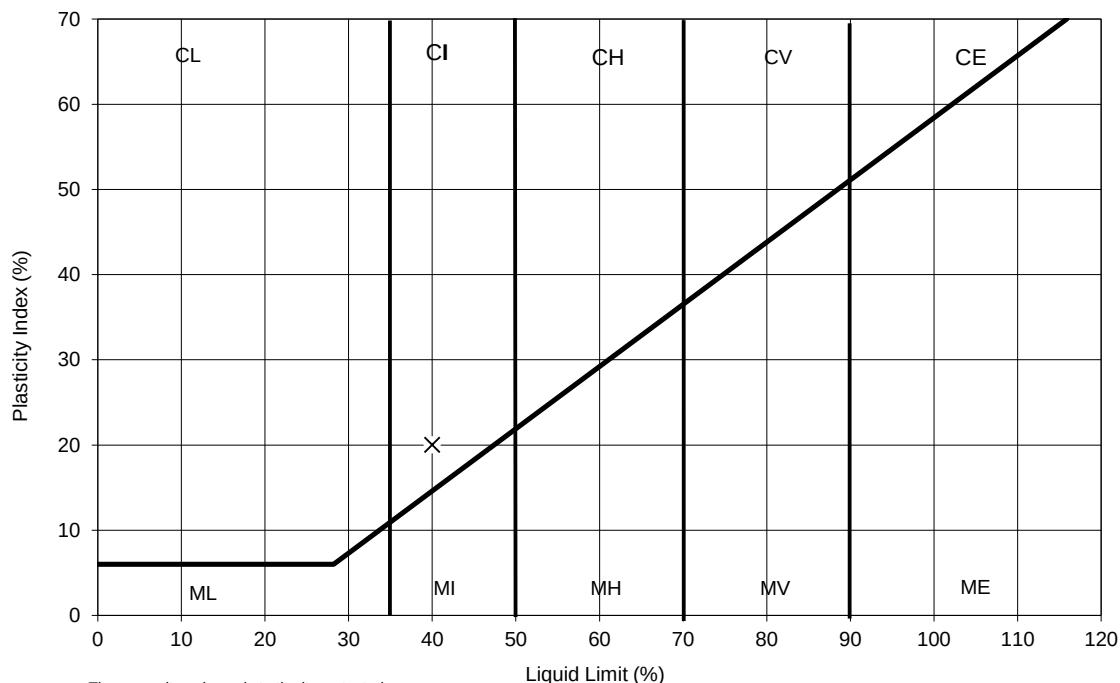
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

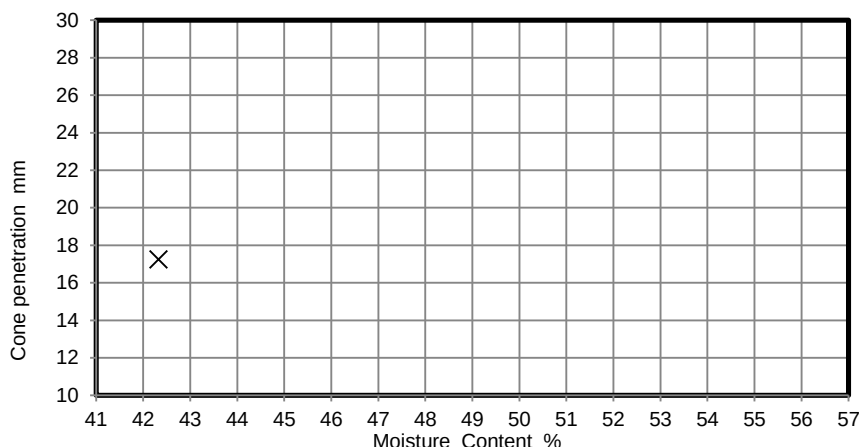
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS66
Site Name	North Horsham II			Sample No.	5
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Brown and bluish grey mottled silty CLAY with rare weakly cemented siltstone fragments			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	08/08/2022

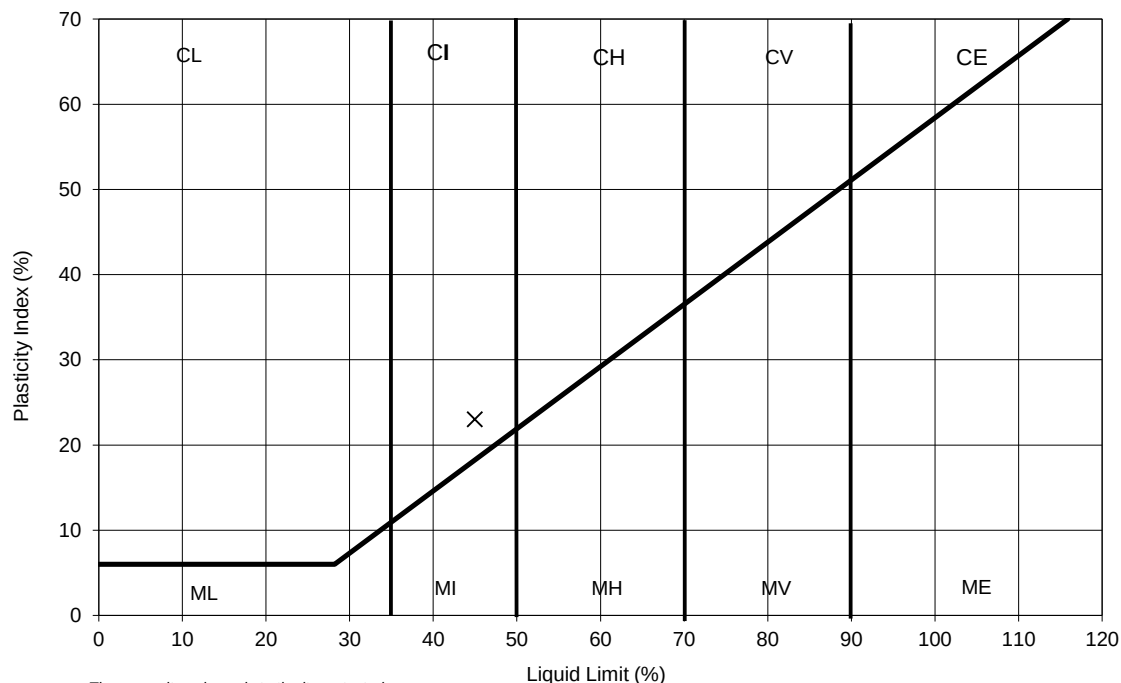


NATURAL MOISTURE CONTENT	15	%
% PASSING 425µm SIEVE	92	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	23	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS67

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown and light grey slightly gravelly silty CLAY (gravel is fm sub-angular siltstone fragments)

Depth Base m -

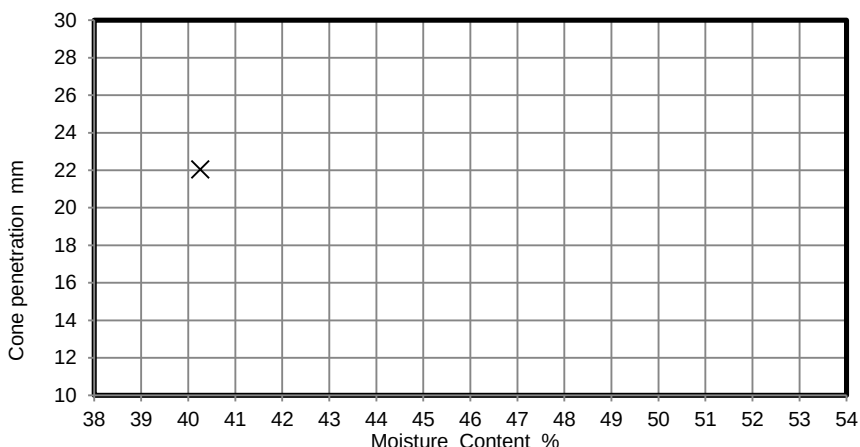
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

82

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

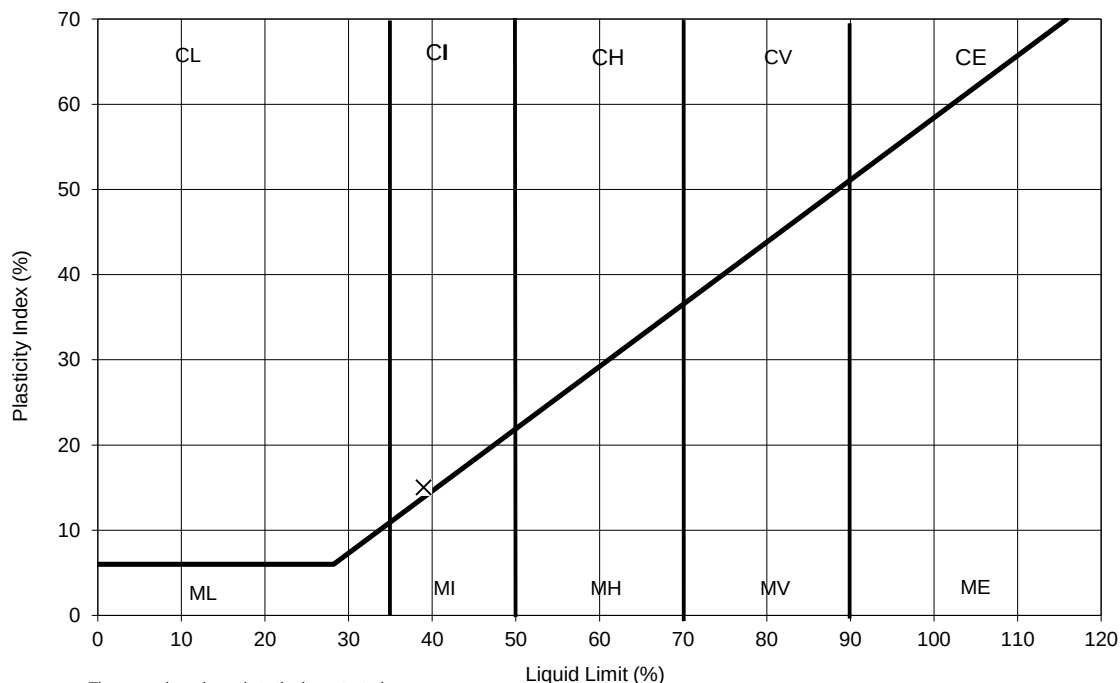
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS68

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and bluish grey mottled silty CLAY

Depth Base m -

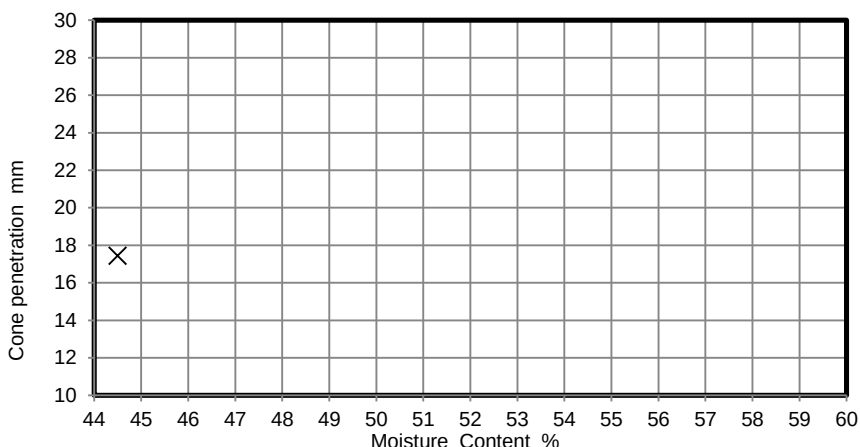
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

47

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

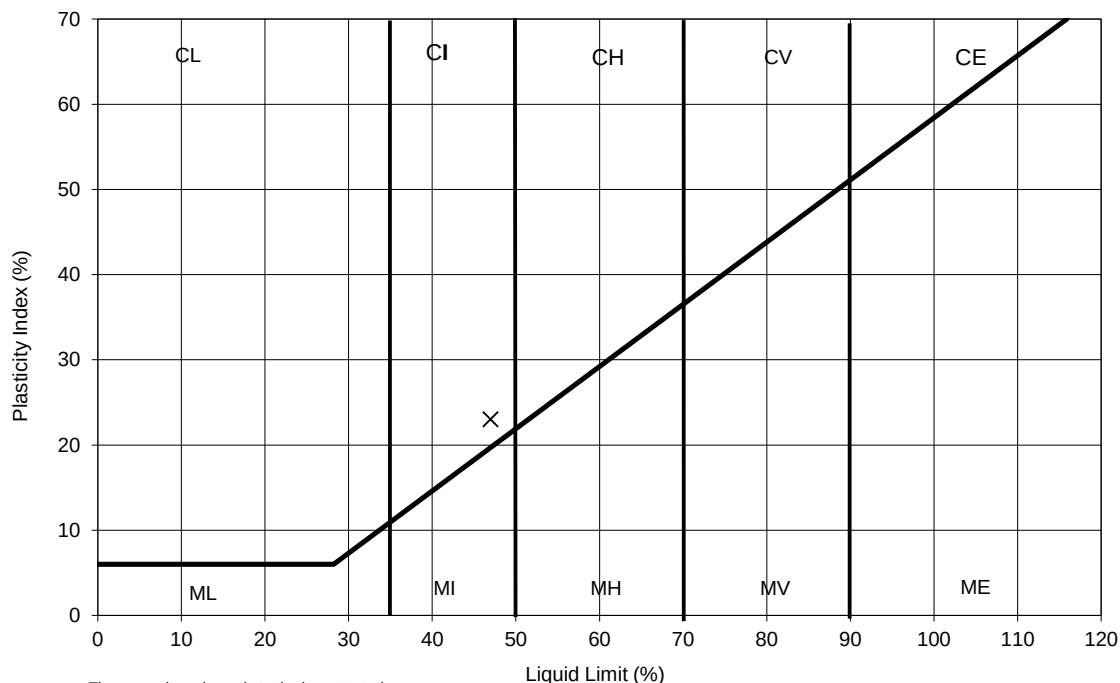
23

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

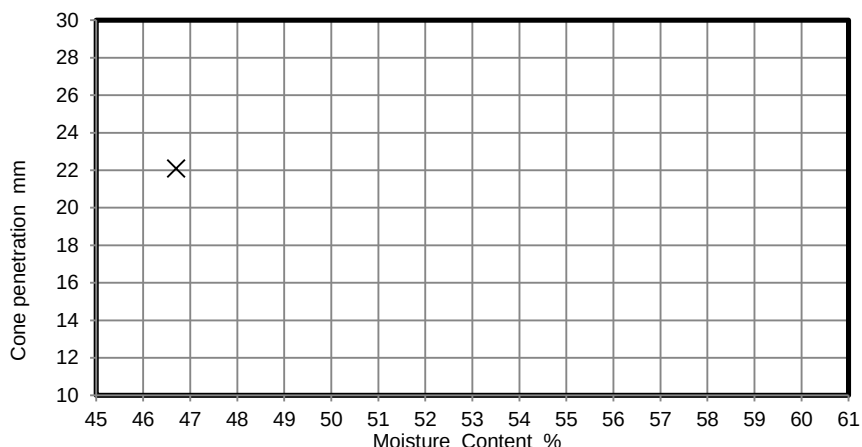
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873		
	Borehole/Pit No.		
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Orangish brown and light grey silty CLAY with rare fm mudstone fragments		

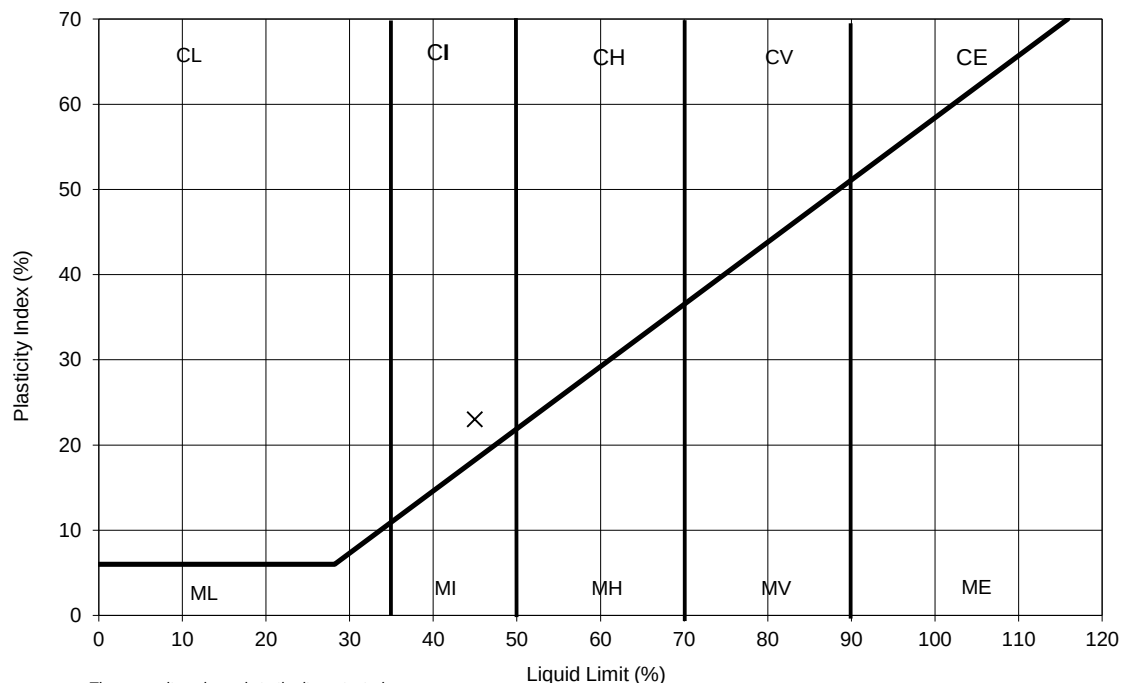


NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	97	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	23	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS70

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown, orangish brown and light grey slightly gravelly silty CLAY with traces of rootlets (gravel is fmc and sub-angular)

Depth Base m -

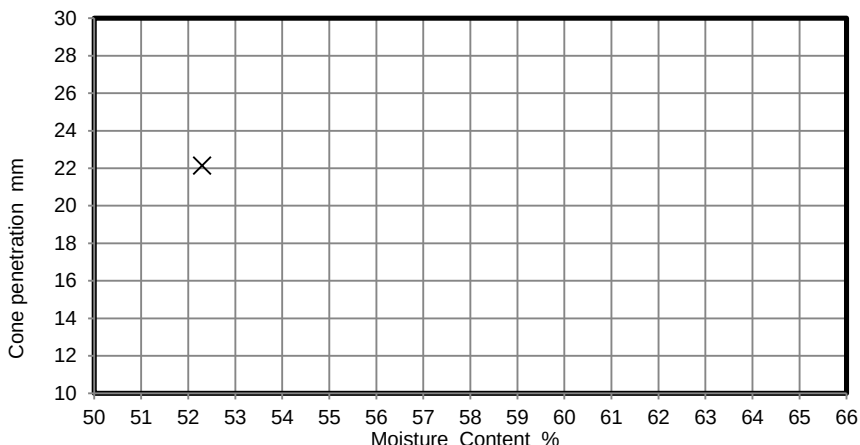
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

28

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

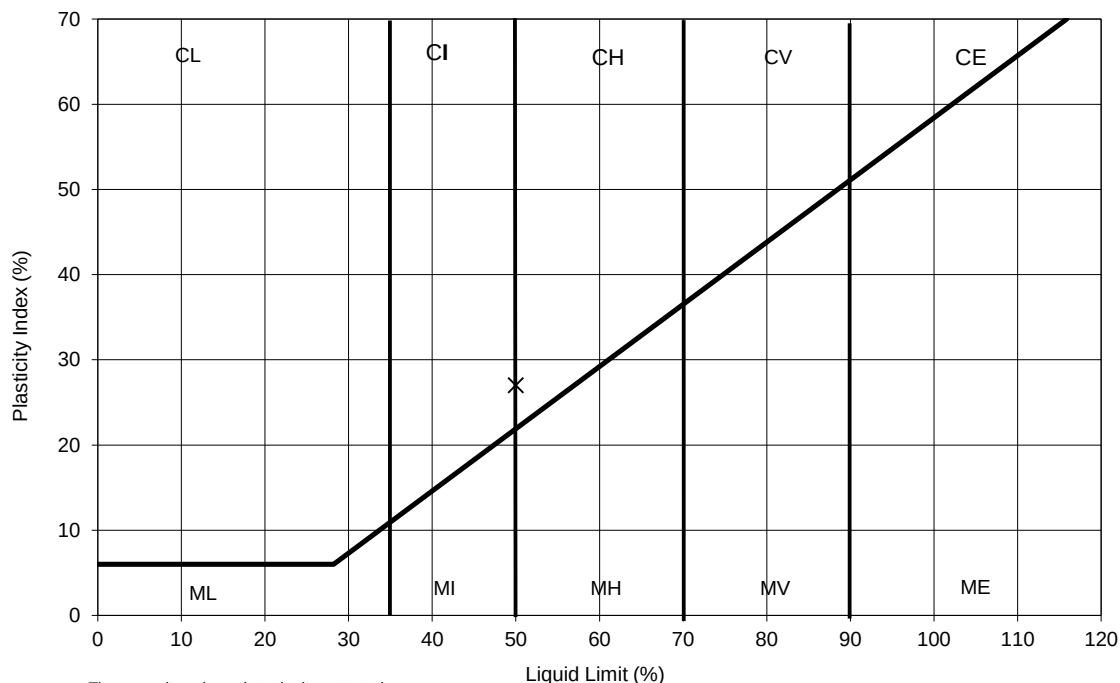
27

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

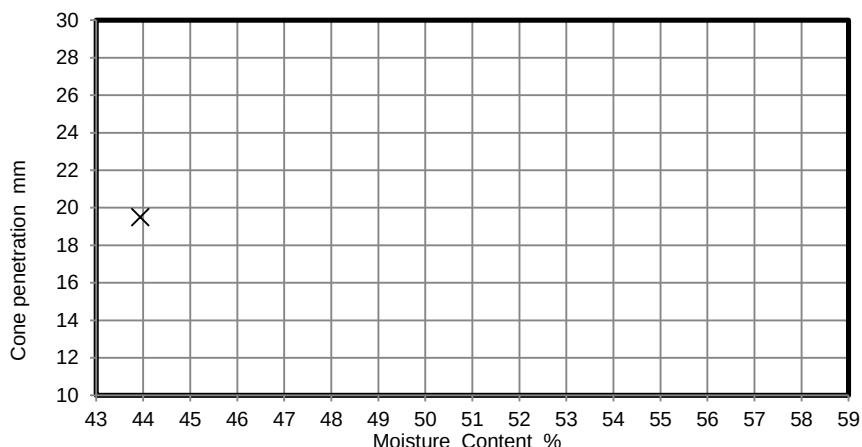
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873		
	Borehole/Pit No.		
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light brown gravelly silty CLAY (gravel is fmc sub-angular siltstone fragments)		



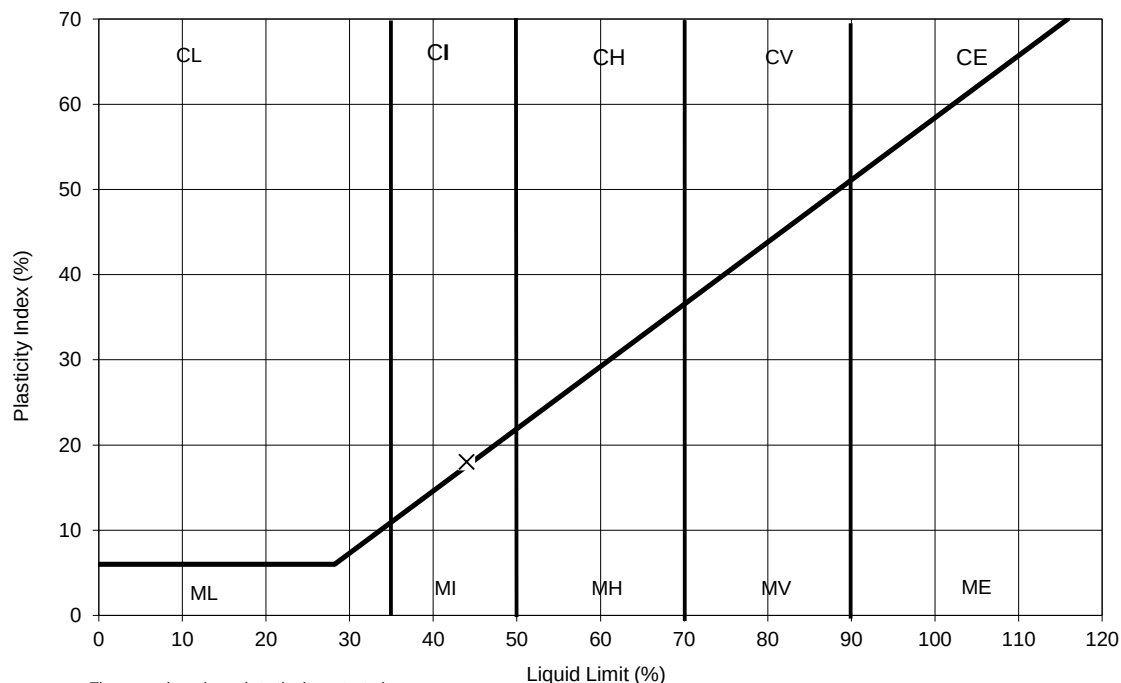
NATURAL MOISTURE CONTENT	16	%
% PASSING 425µm SIEVE	5	%
LIQUID LIMIT	44	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	18	%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



2519



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS72

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown slightly gravelly silty CLAY with traces of roots and rootlets (gravel is fm sub-angular siltstone fragments)

Depth Base m -

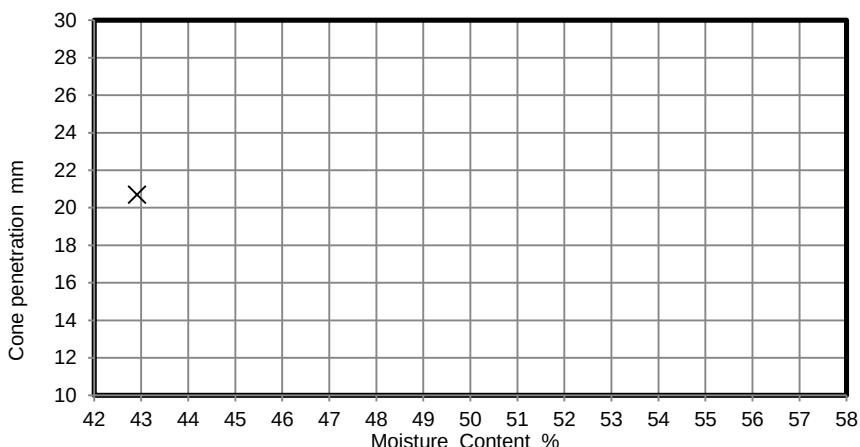
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

94

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

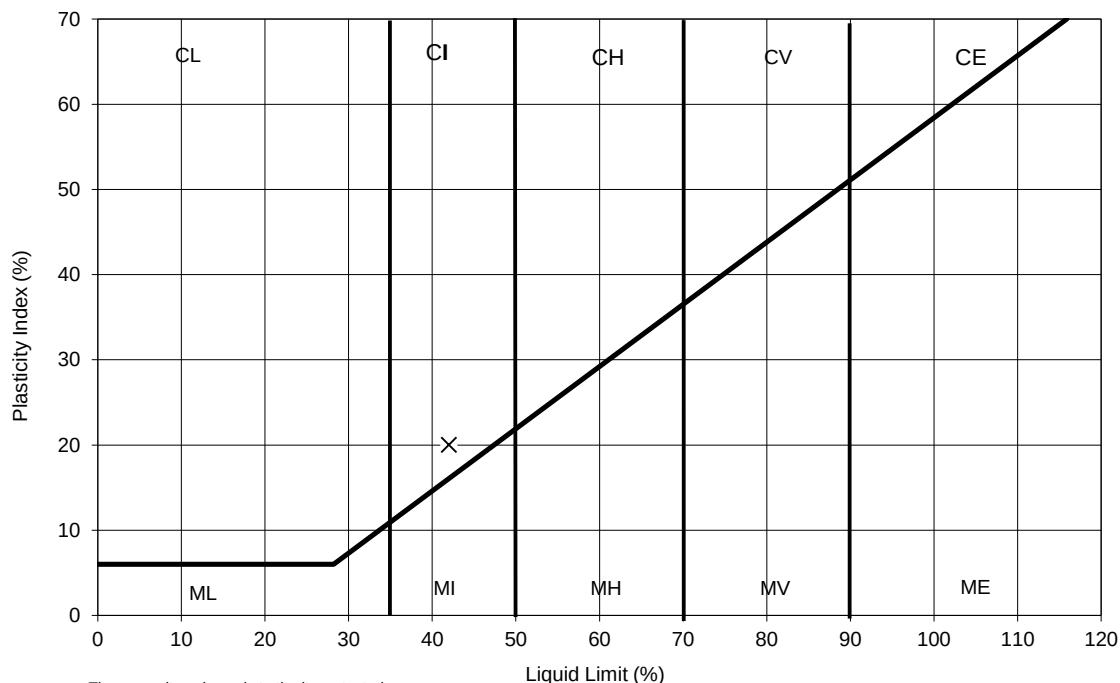
20

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS73

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orange brown and light grey silty CLAY

Depth Base m -

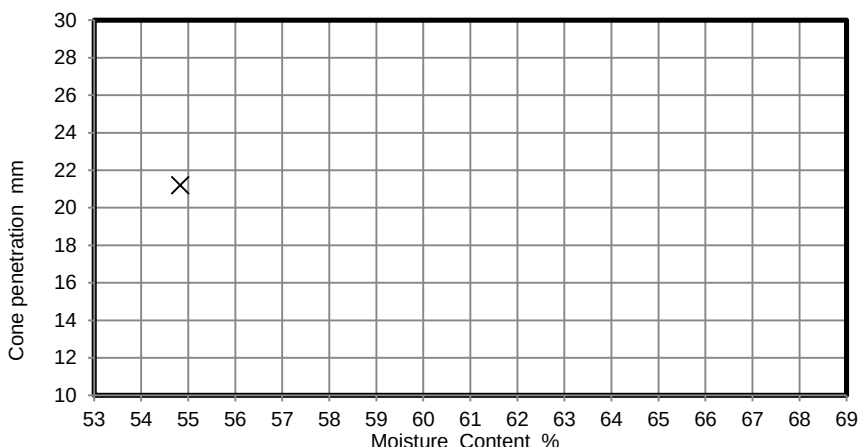
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

27

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

54

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

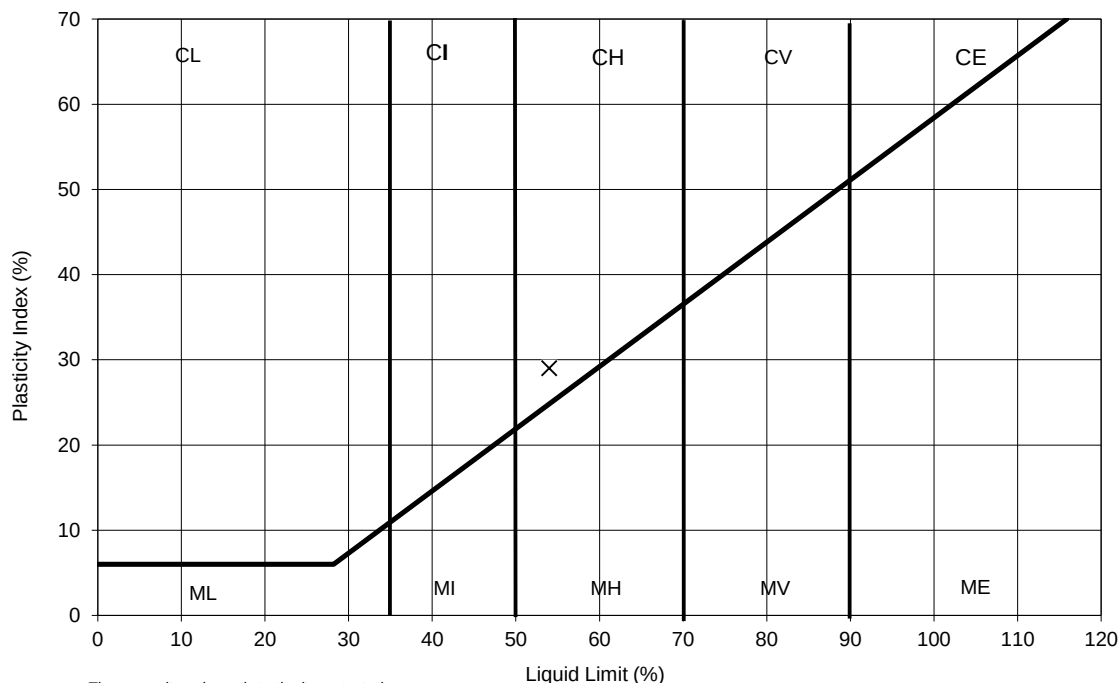
29

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS74

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Bluish grey and orangish brown silty CLAY with decayed wood fragments

Depth Base m -

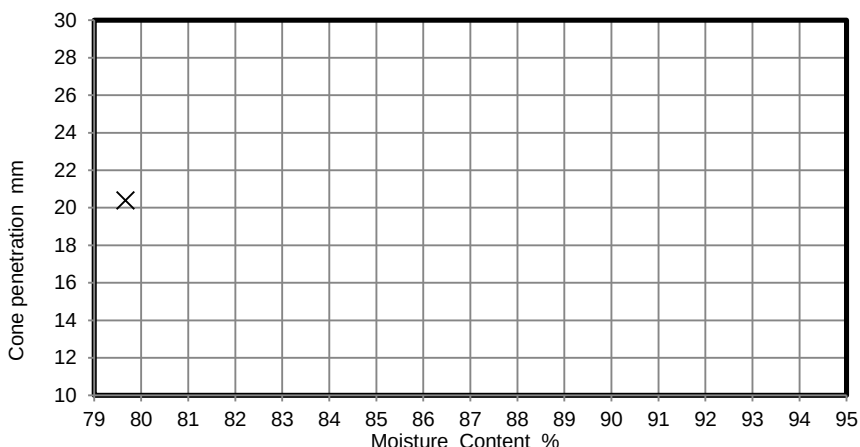
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 03/08/2022



NATURAL MOISTURE CONTENT

28

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

79

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

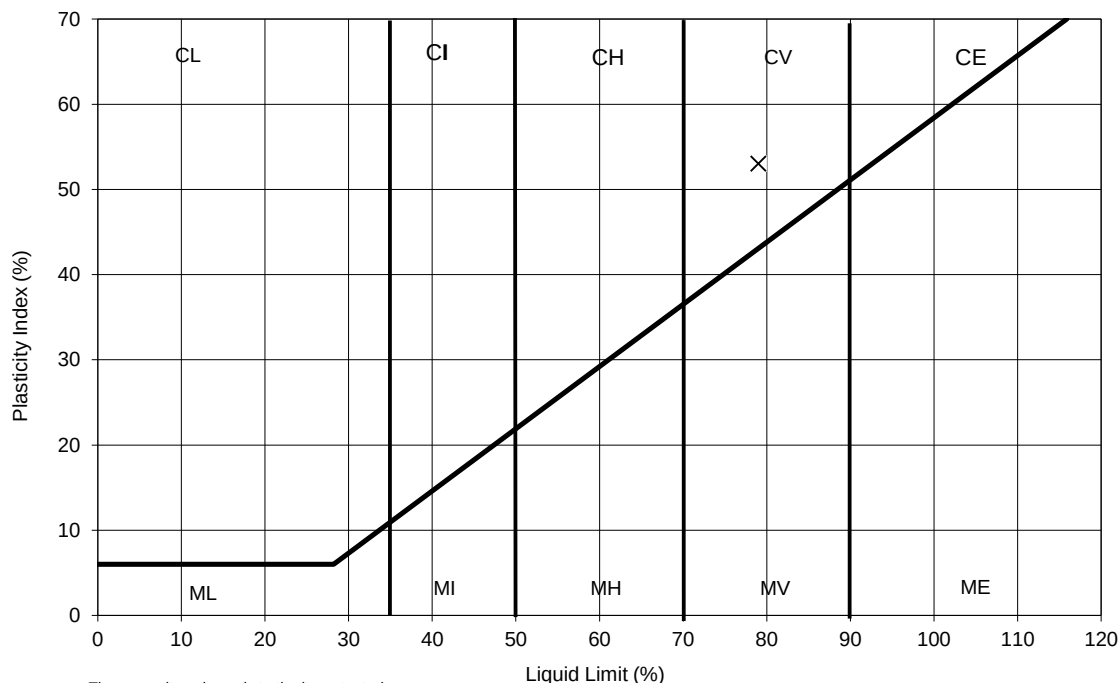
53

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS75

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Dark brown and occasional light grey slightly gravelly sandy silty CLAY (gravel is fmc mudstone fragments)

Depth Base m -

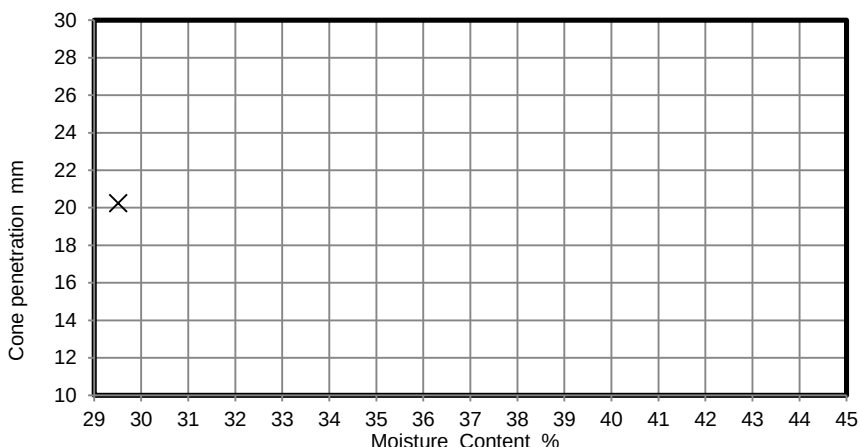
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

80

%

LIQUID LIMIT

29

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

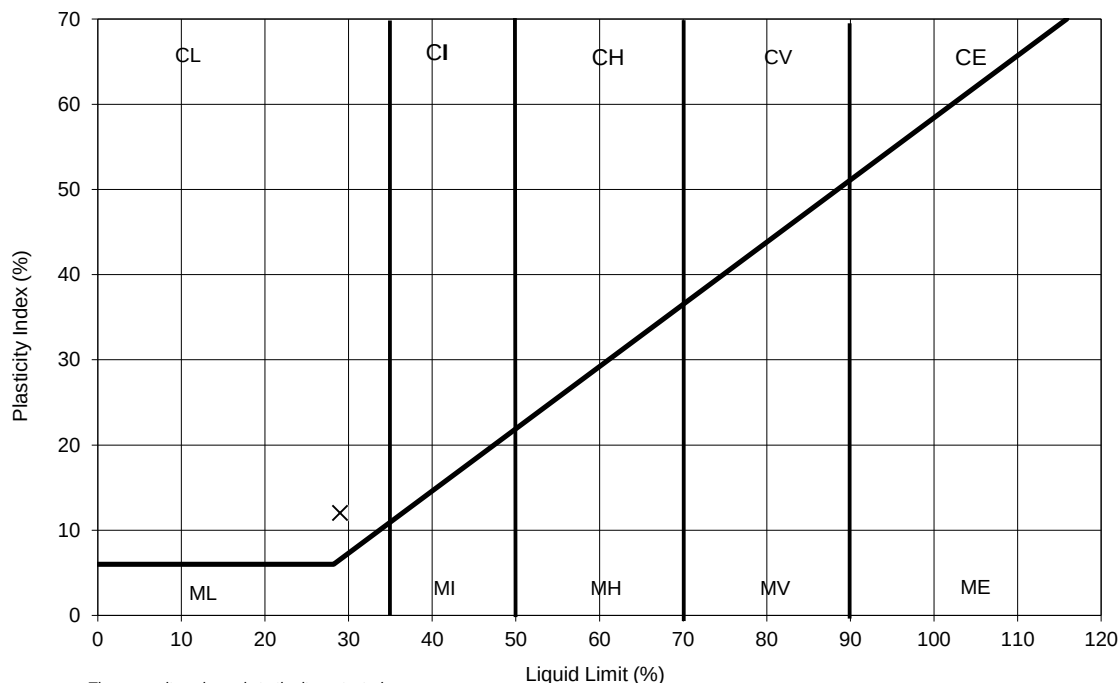
12

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS76

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Light bluish grey slightly mottled dark orangish brown slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)

Depth Base m -

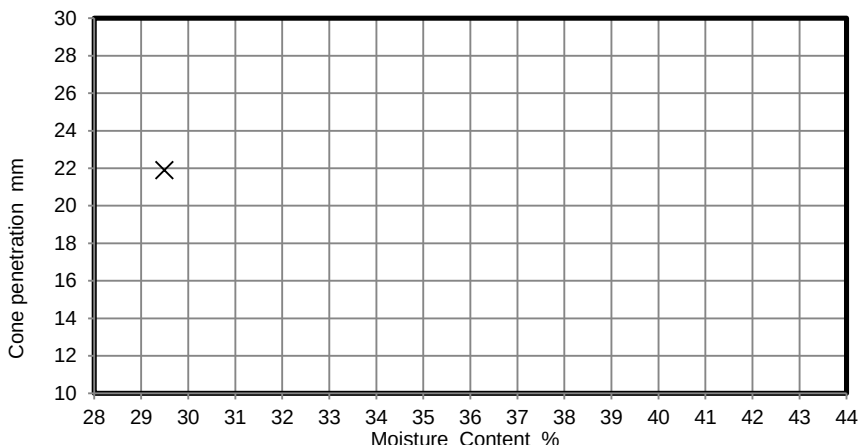
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/06/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

29

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

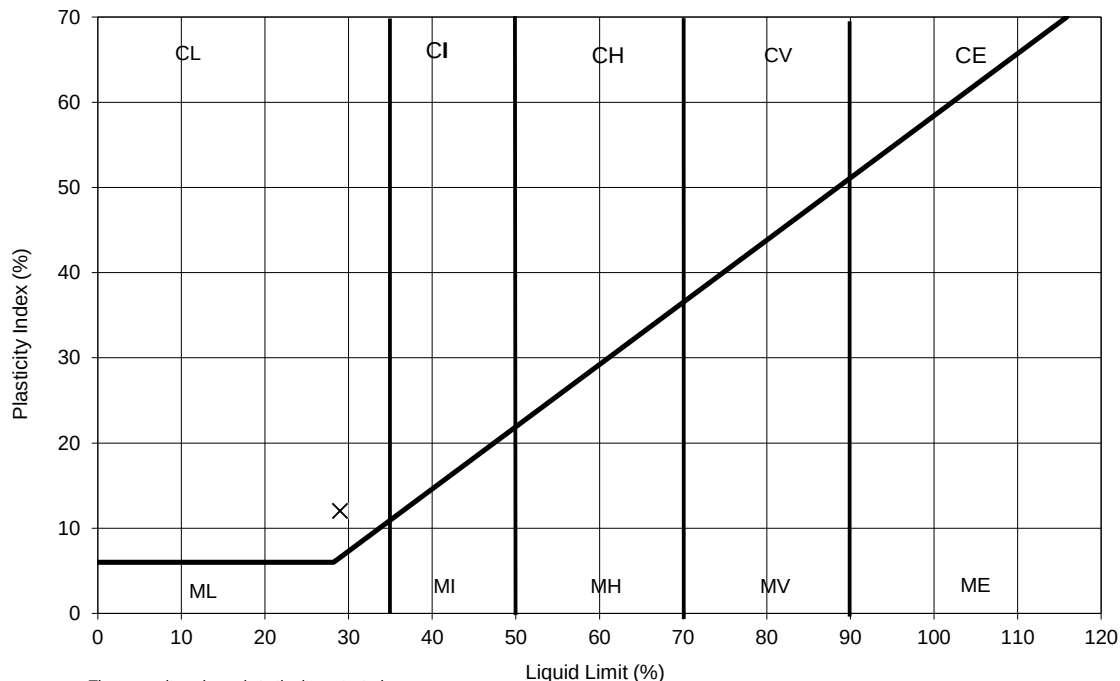
12

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

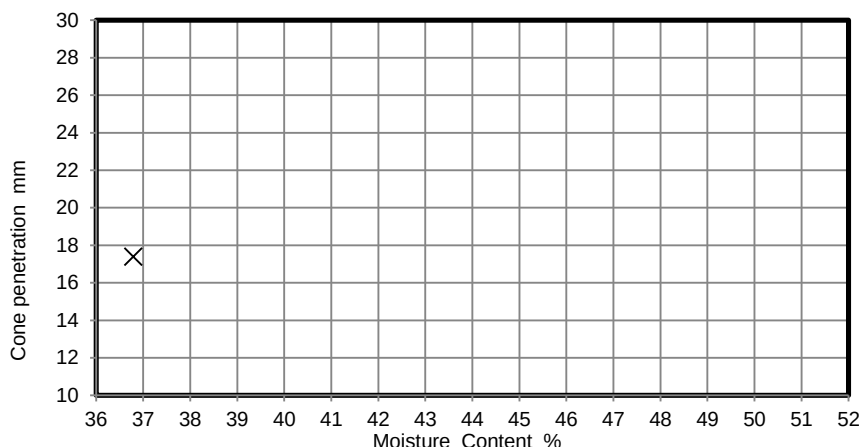
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS77
Site Name	North Horsham II			Sample No.	3
Project No.	GE20724	Client	GESL	Depth Top m	0.50
Soil Description	Light grey, light brown and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	22/07/2022

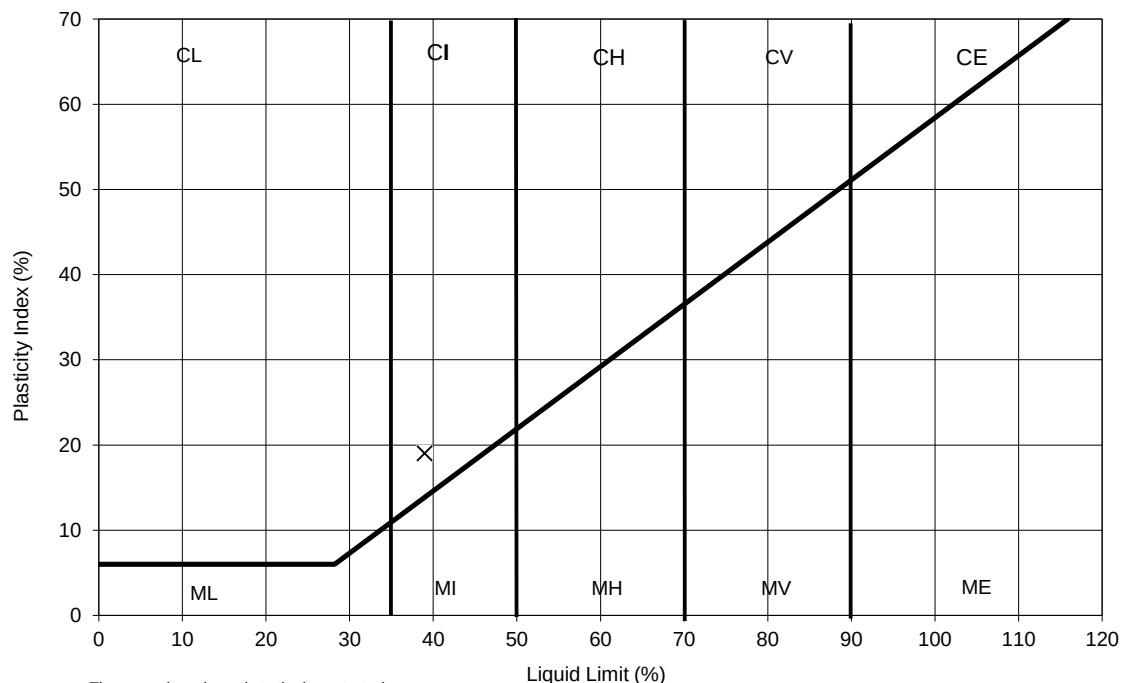


NATURAL MOISTURE CONTENT	19	%
% PASSING 425µm SIEVE	97	%
LIQUID LIMIT	39	%
PLASTIC LIMIT	20	%
PLASTICITY INDEX	19	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

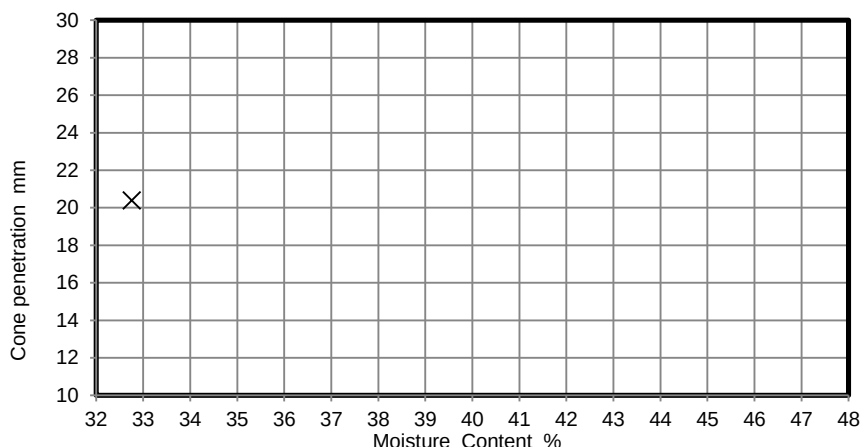
Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS77
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Dark grey, yellowish brown and light grey slightly gravelly silty CLAY (gravel is fm sub-angular to angular)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	16/08/2022



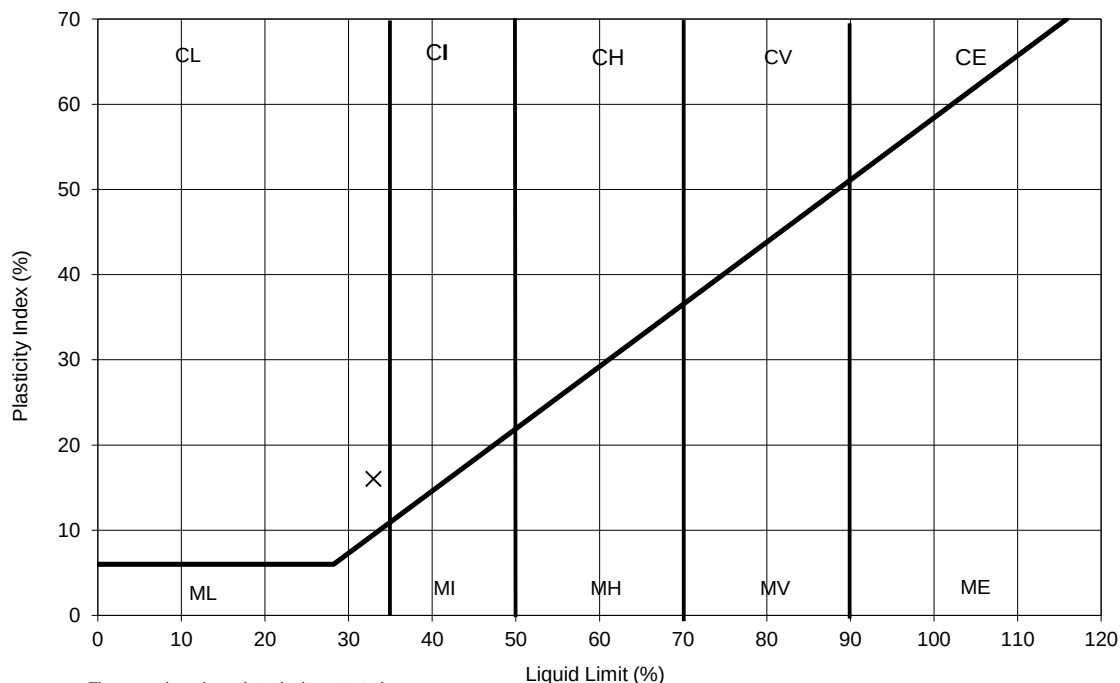
NATURAL MOISTURE CONTENT	12	%
% PASSING 425µm SIEVE	37	%
LIQUID LIMIT	33	%
PLASTIC LIMIT	17	%
PLASTICITY INDEX	16	%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS78

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown slightly mottled grey slightly sandy silty CLAY with occasional black flecks

Depth Base m -

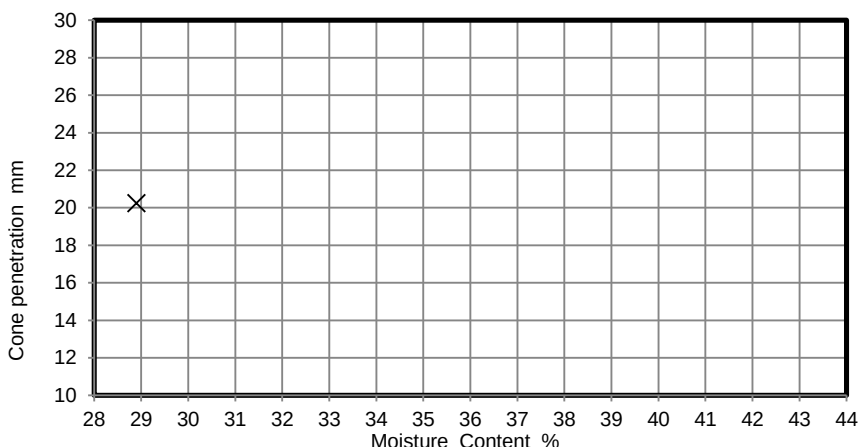
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/06/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

29

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

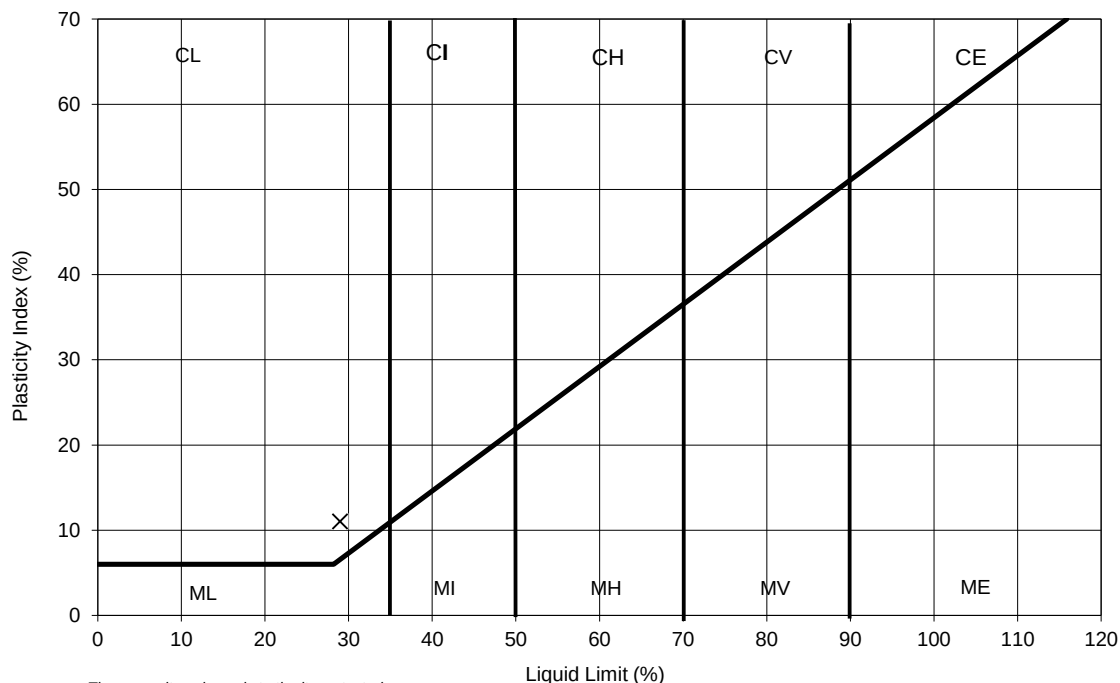
11

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS79

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and bluish grey mottled silty CLAY with rare black staining

Depth Base m -

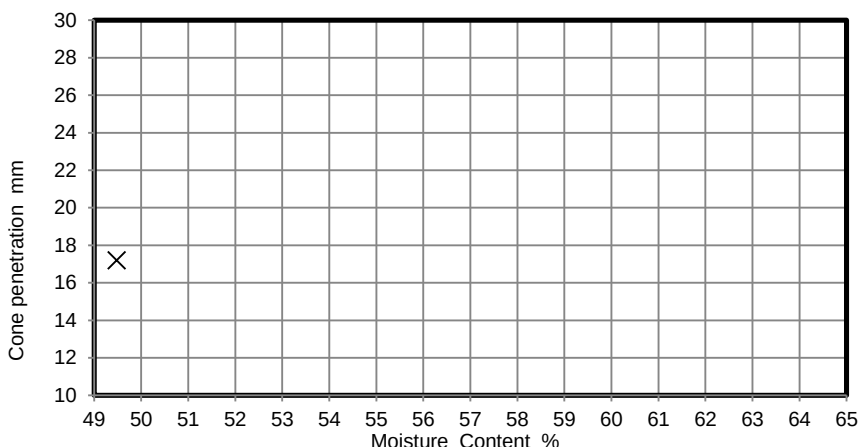
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 05/08/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

52

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

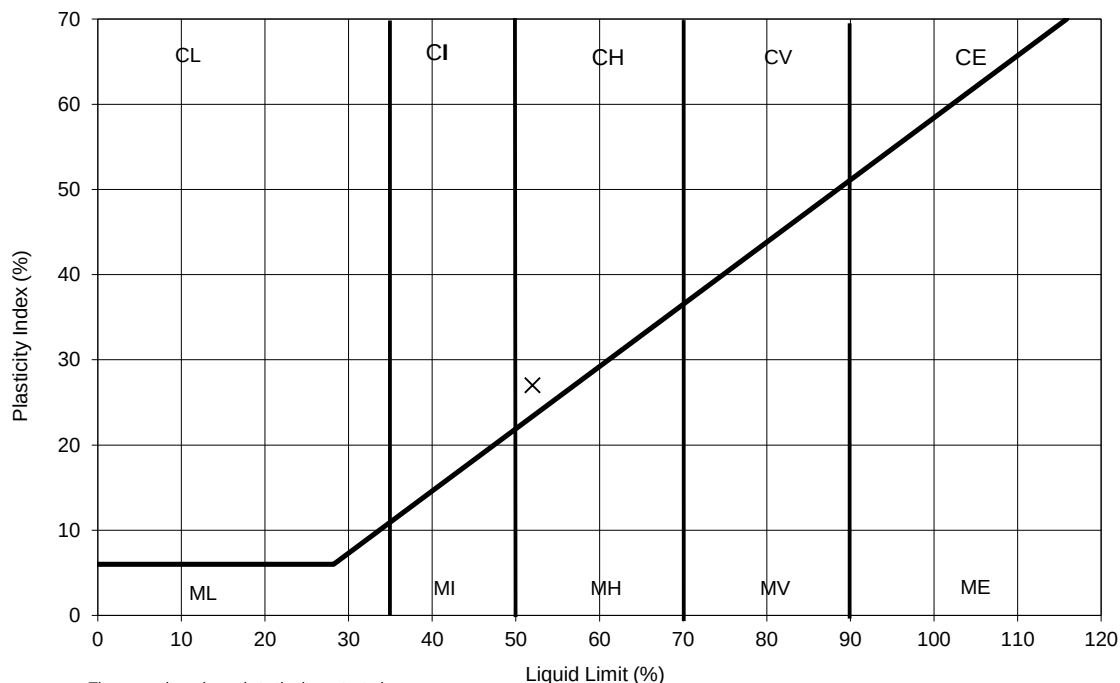
27

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS80

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown slightly mottled bluish grey silty CLAY with black staining

Depth Base m -

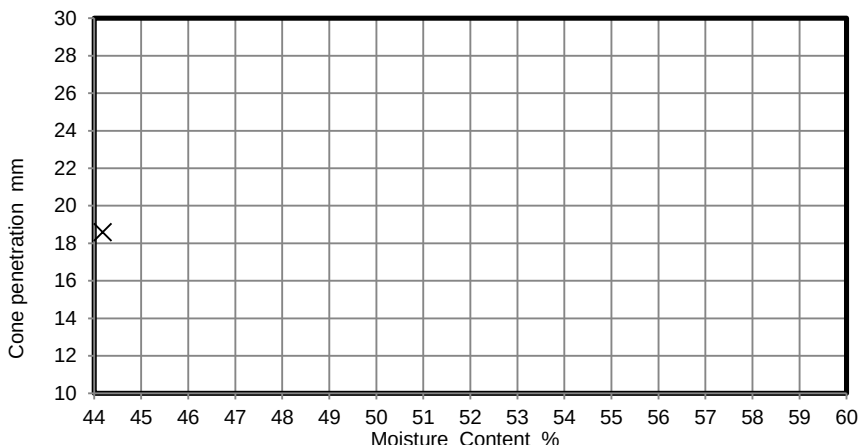
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

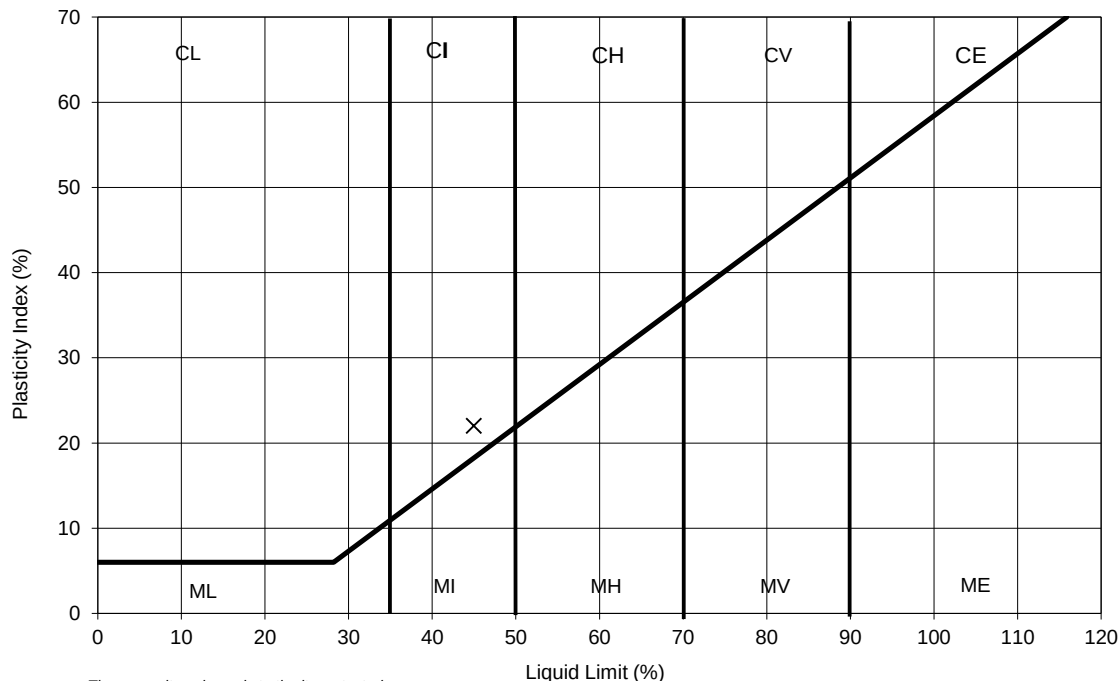
22

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

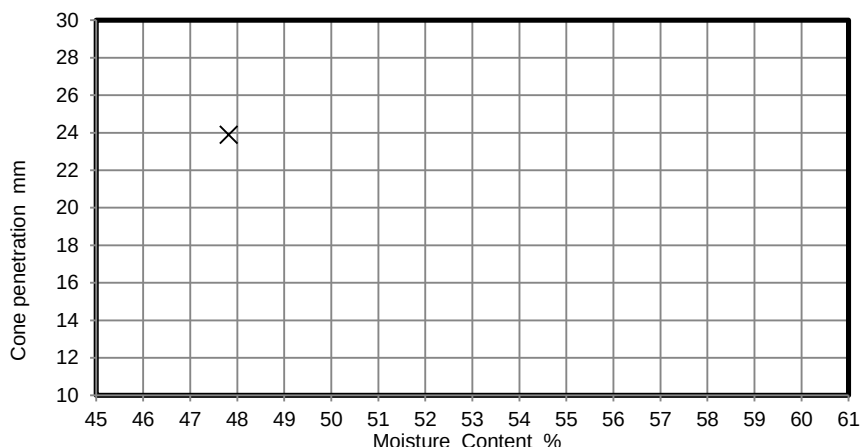
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS81
Site Name	North Horsham II			Sample No.	5
Project No.	GE20724	Client	GESL	Depth Top m	1.50
Soil Description	Light grey mottled orangish brown and occasional ironstained silty CLAY with rare fine gravel			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	22/07/2022

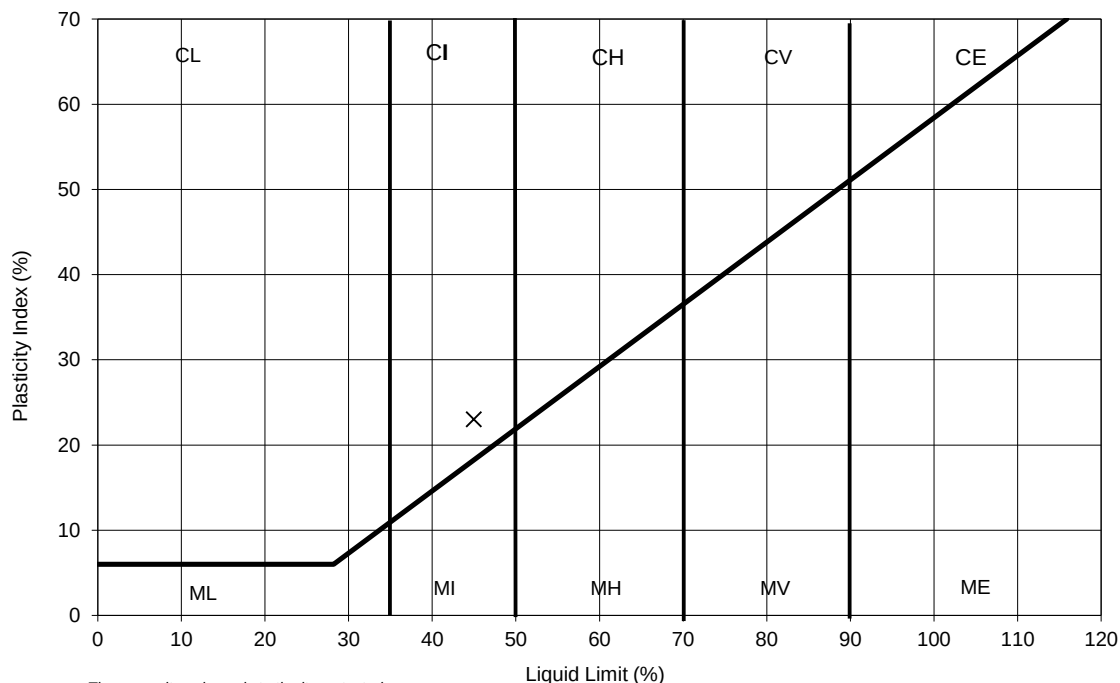


NATURAL MOISTURE CONTENT	20	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	23	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS82

Site Name North Horsham II

Sample No. 7

Project No. GE20724

Client

GESL

Depth Top m 2.00

Soil Description

Grey brown gravelly silty CLAY (gravel is fmc sub-angular)

Depth Base m -

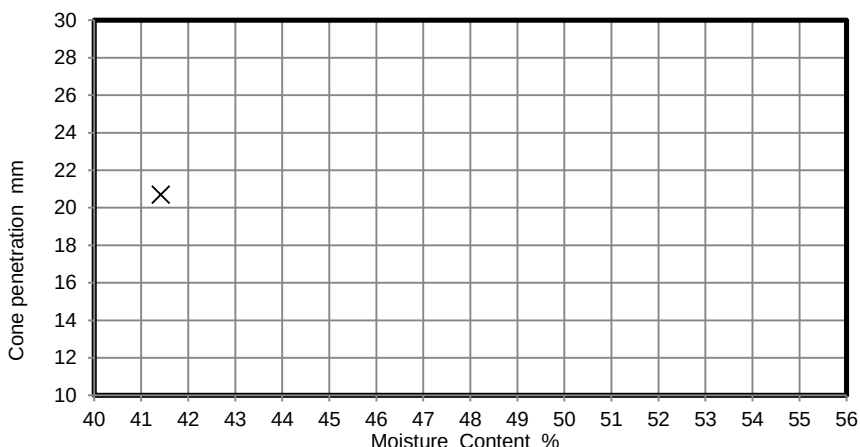
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 16/08/2022



NATURAL MOISTURE CONTENT

13

%

% PASSING 425µm SIEVE

37

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

18

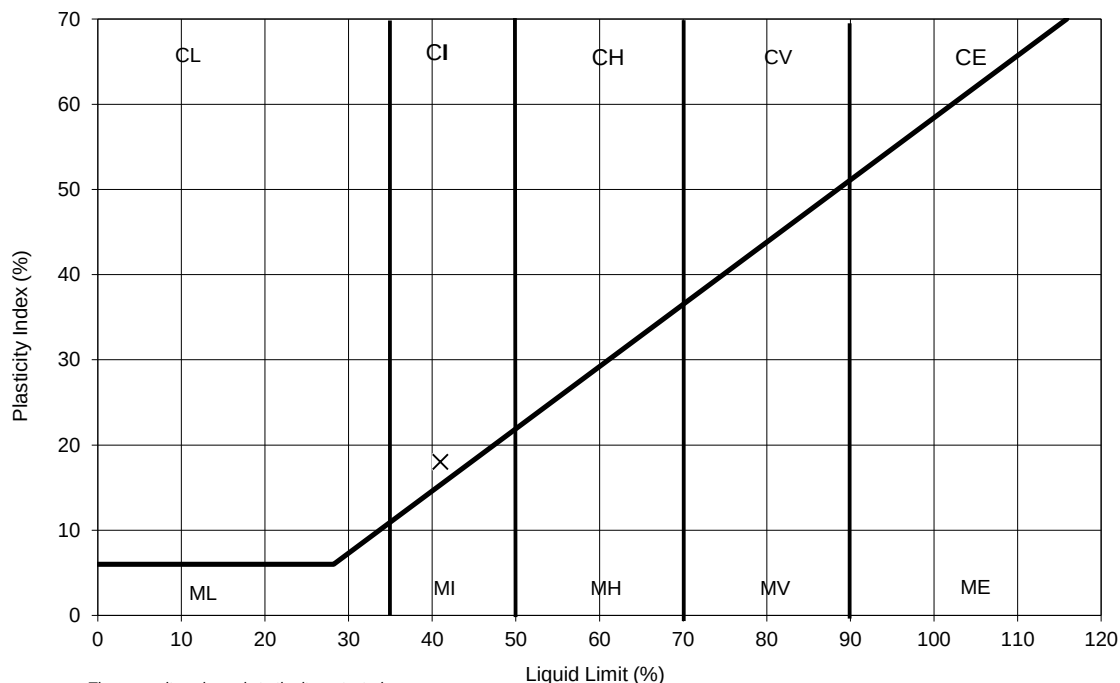
%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS83

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Brown silty CLAY with weakly cemented siltstone fragments

Depth Base m -

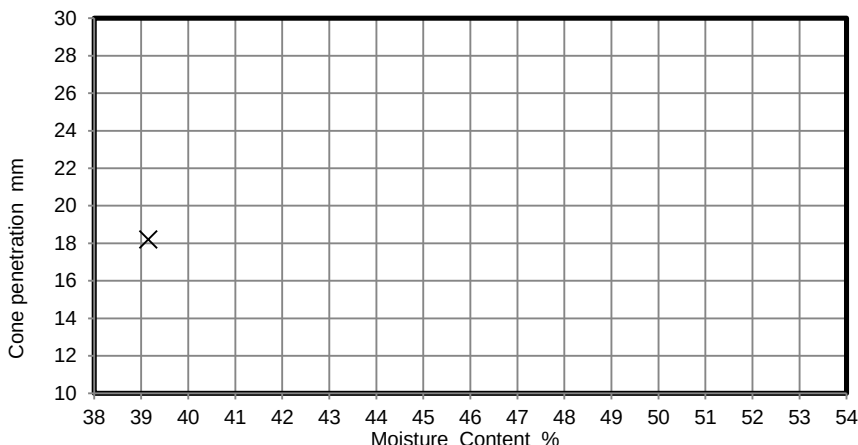
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

9.4

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

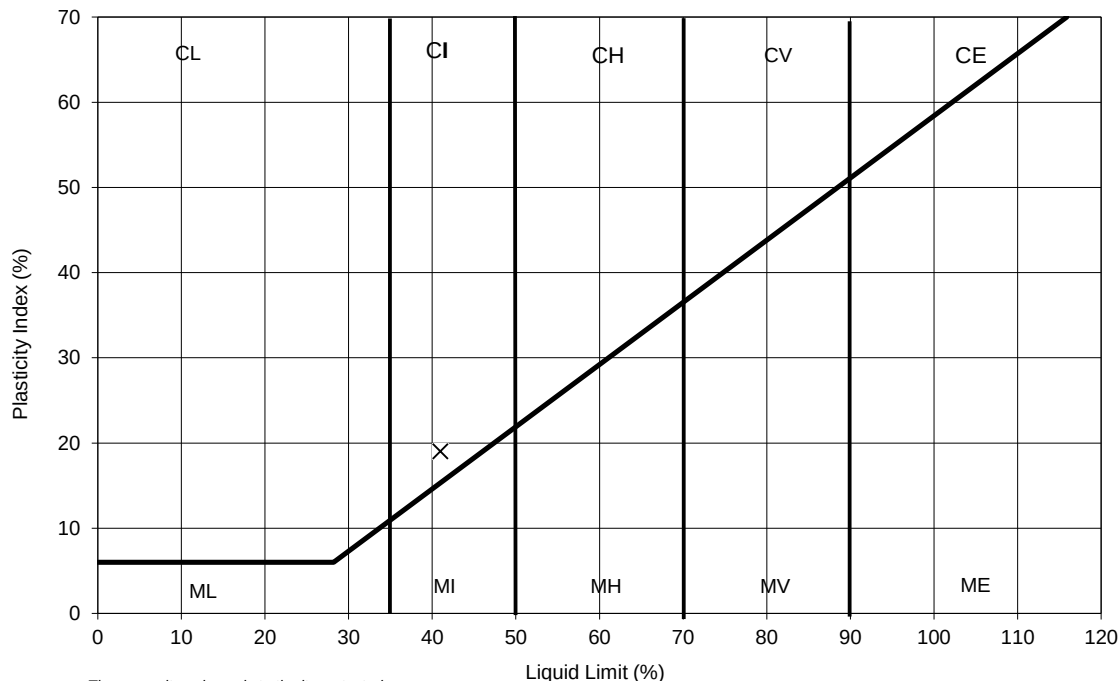
19

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS84

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and bluish grey mottled silty CLAY with black staining

Depth Base m -

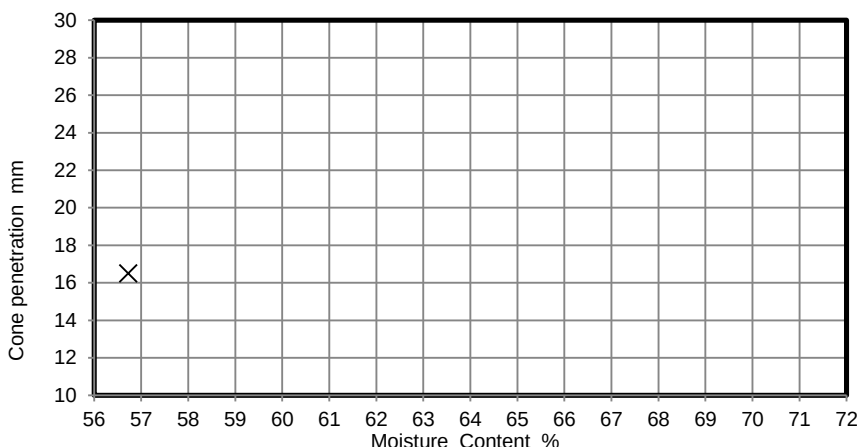
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

60

%

PLASTIC LIMIT

28

%

PLASTICITY INDEX

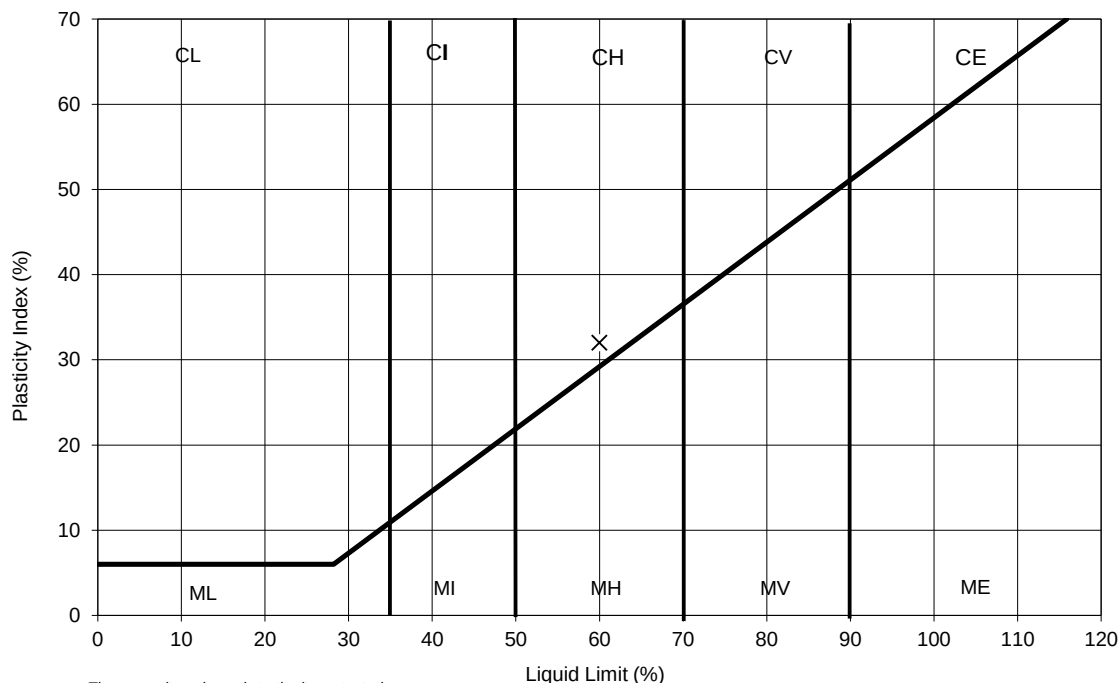
32

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS85

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Brown, bluish grey and orangish brown mottled silty CLAY

Depth Base m -

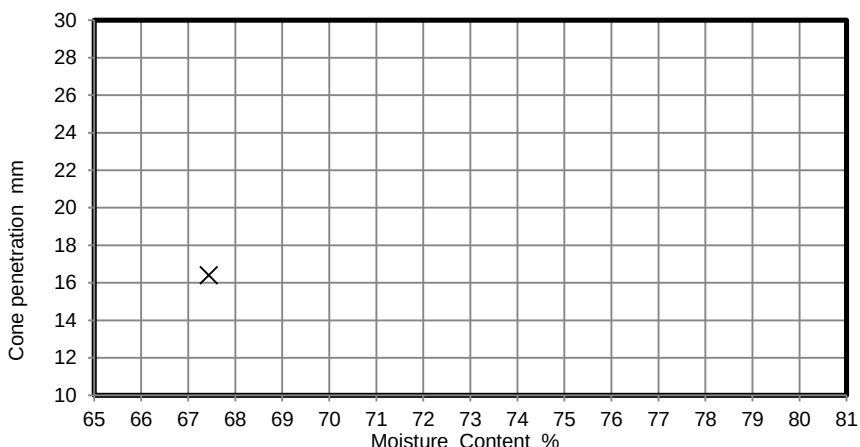
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 09/08/2022



NATURAL MOISTURE CONTENT

28

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

72

%

PLASTIC LIMIT

31

%

PLASTICITY INDEX

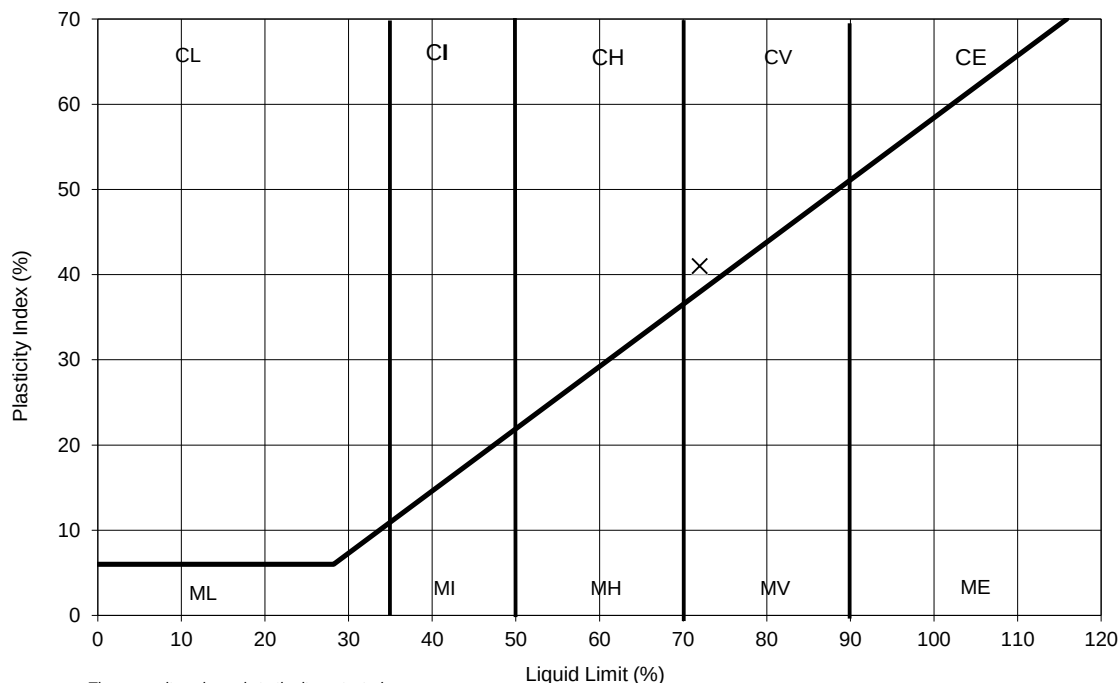
41

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

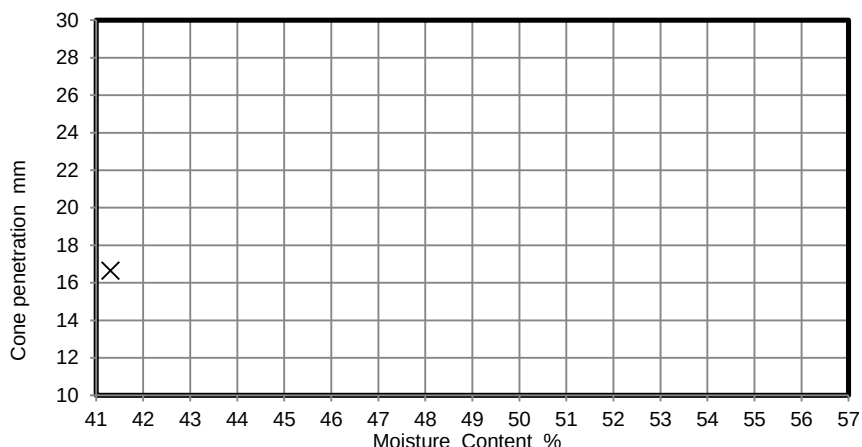
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873		
	Borehole/Pit No.		
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Brown, bluish grey and orangish brown mottled slightly sandy silty CLAY		

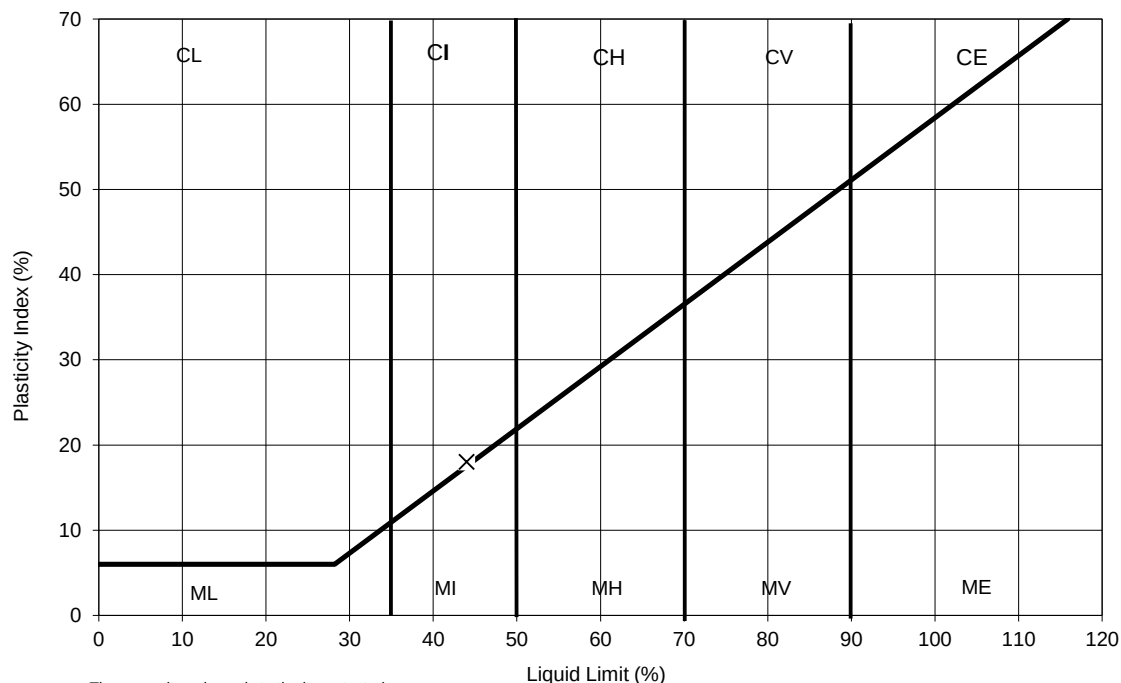


NATURAL MOISTURE CONTENT	18	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	44	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	18	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS87

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and bluish grey mottled silty CLAY

Depth Base m -

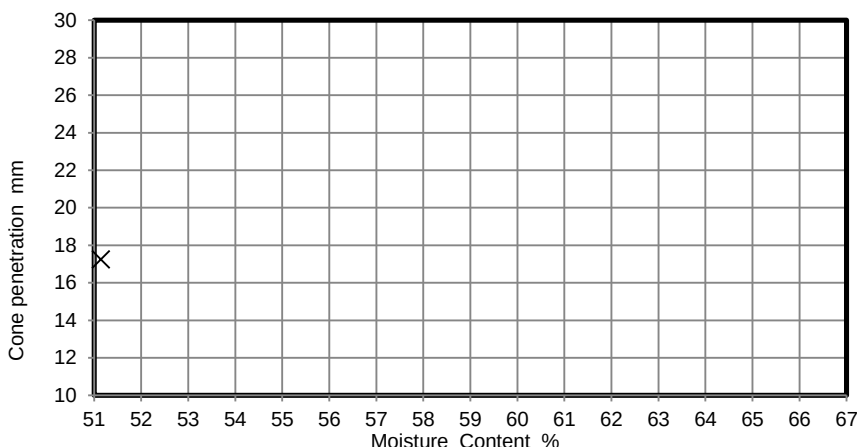
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

54

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

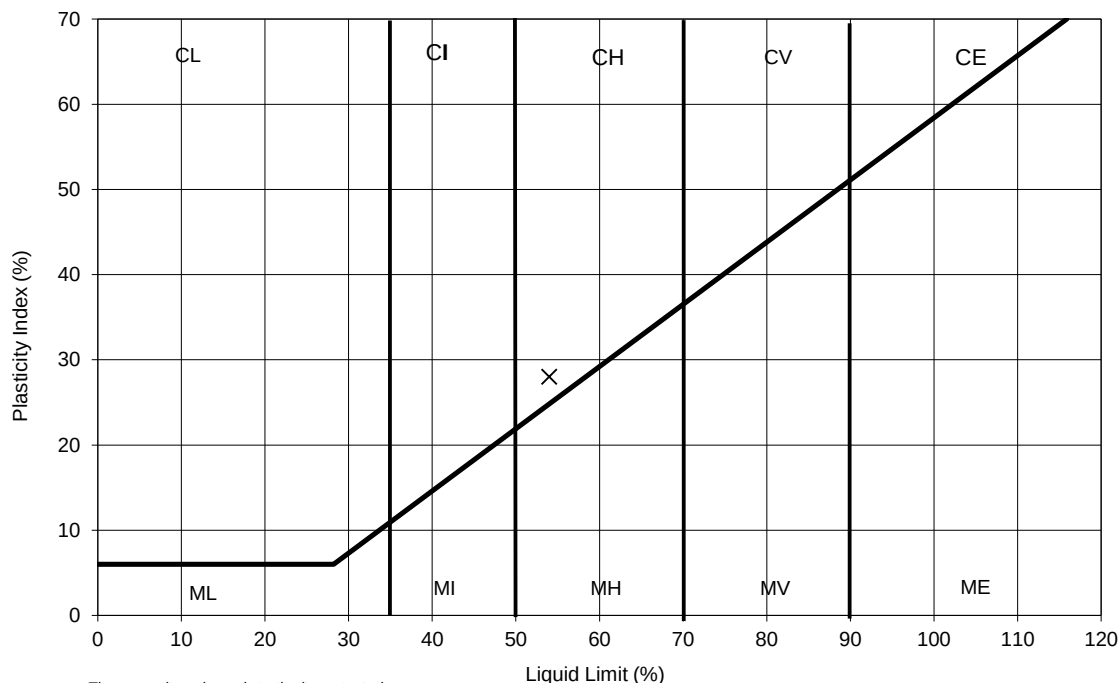
28

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS87

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Light brown and bluish grey silty CLAY

Depth Base m -

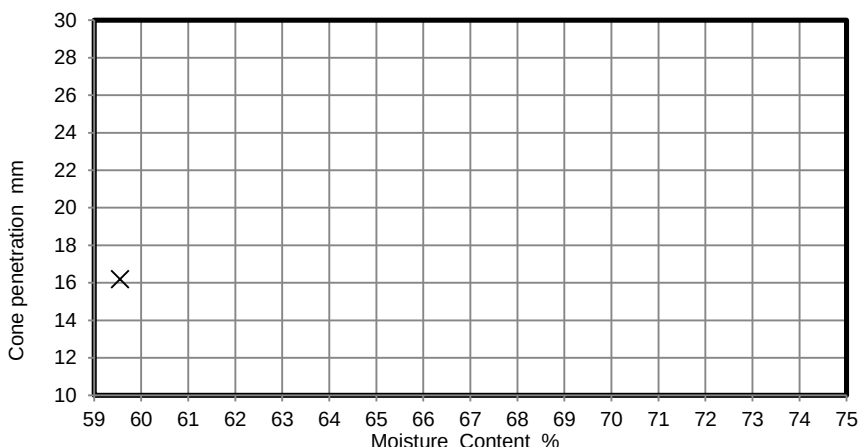
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 09/08/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

64

%

PLASTIC LIMIT

26

%

PLASTICITY INDEX

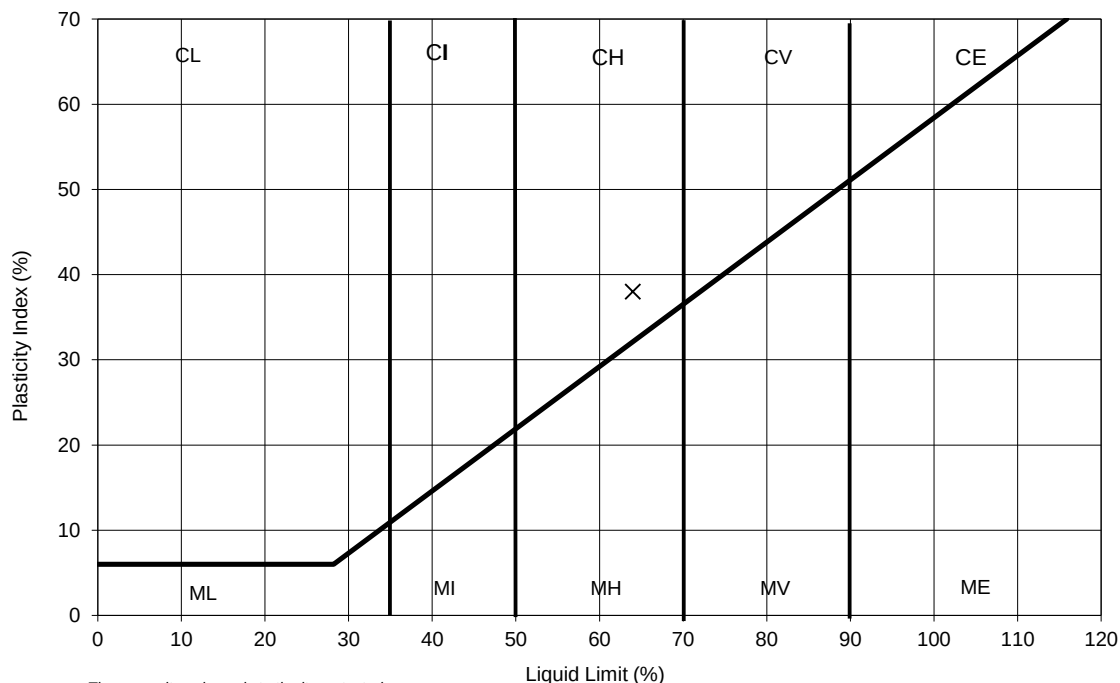
38

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS88

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Brown and bluish grey mottled silty CLAY

Depth Base m -

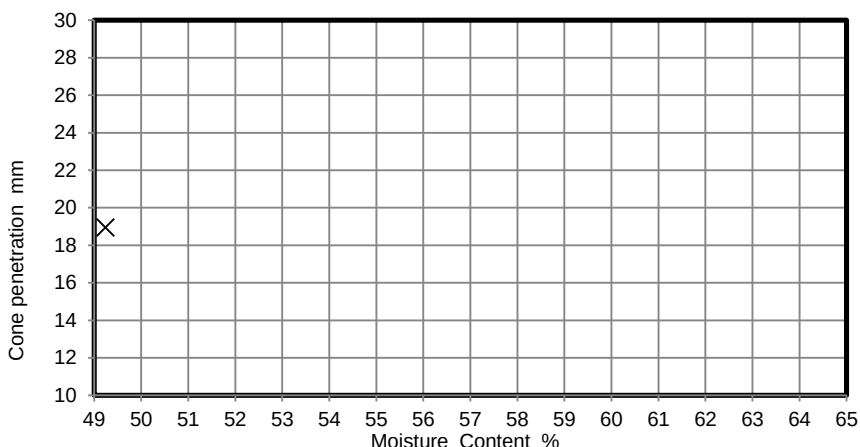
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 08/08/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

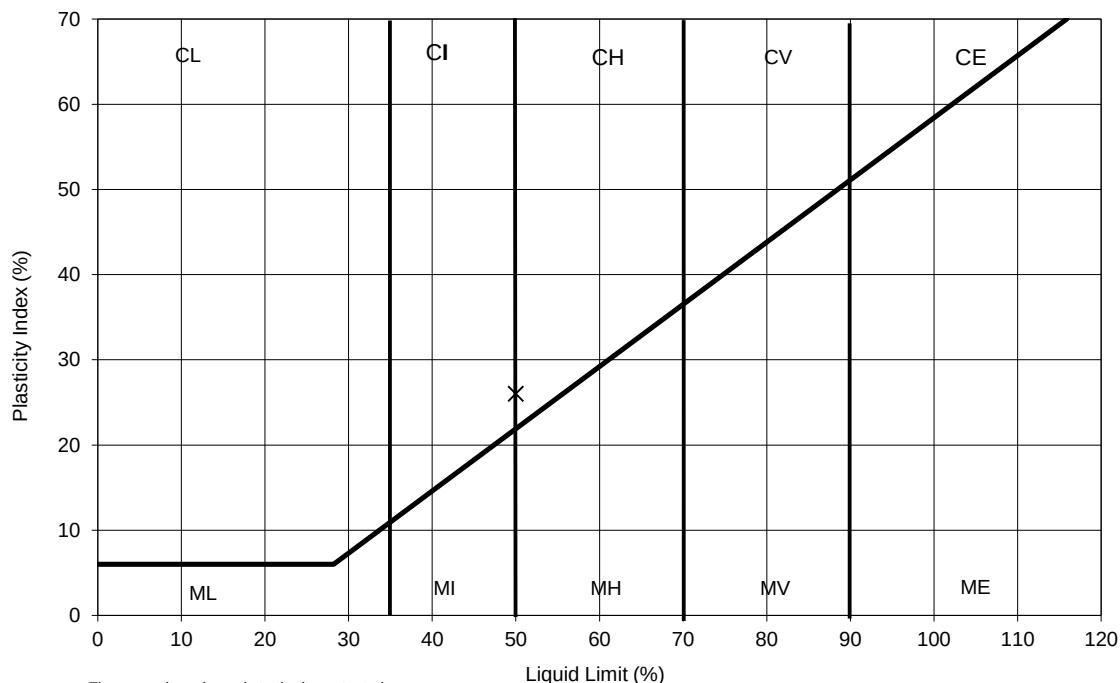
26

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS89

Site Name North Horsham II

Sample No. 3

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

Yellowish brown and light grey mottled very silty CLAY

Depth Base m -

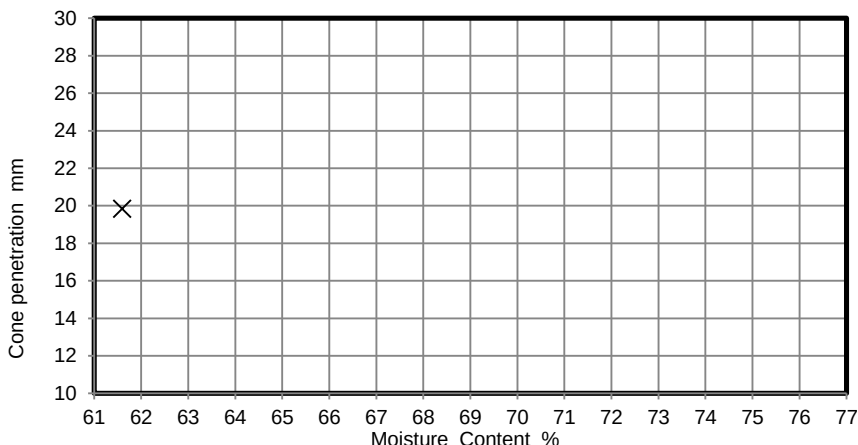
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

62

%

PLASTIC LIMIT

21

%

PLASTICITY INDEX

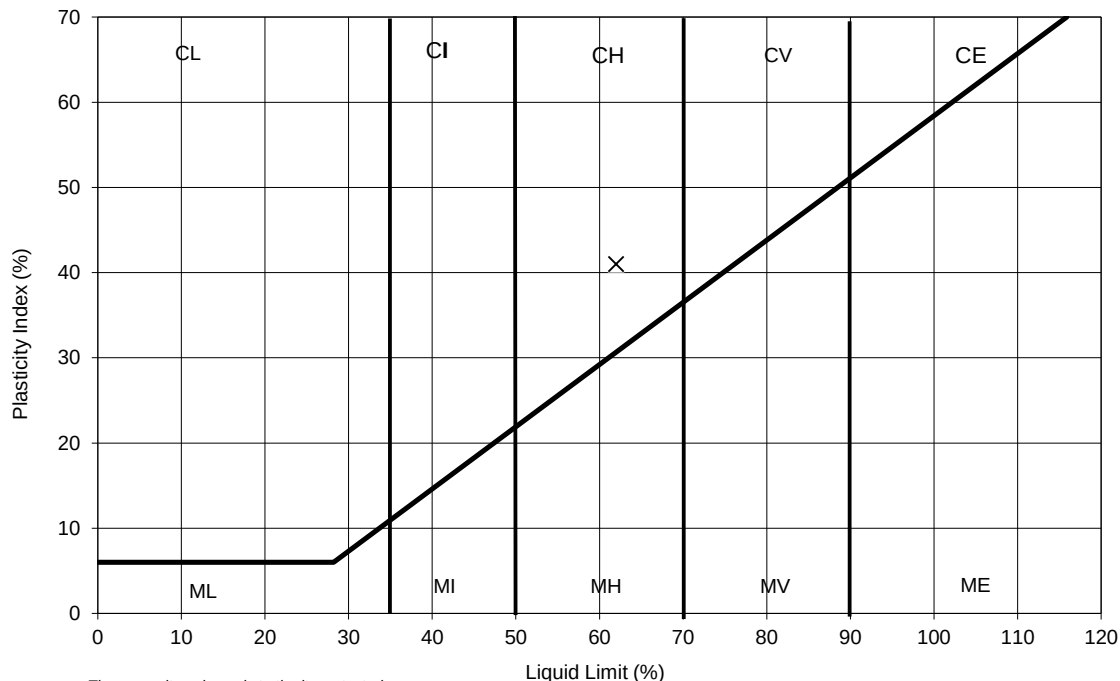
41

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

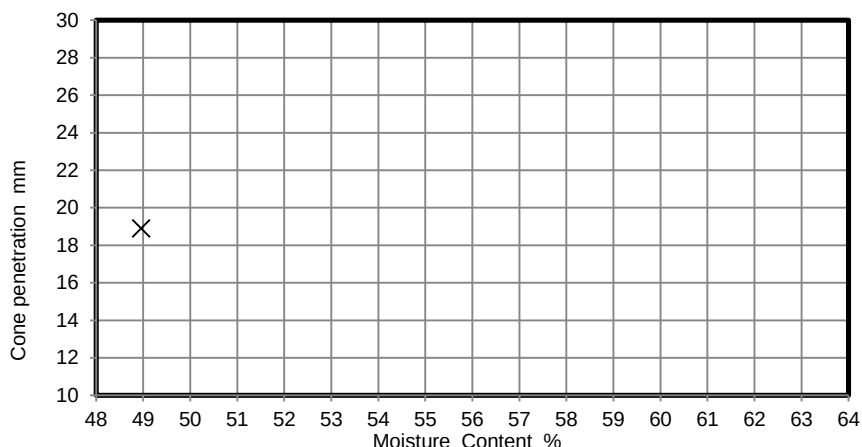
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873		
	Borehole/Pit No.		
Sample No.	5		
Depth Top m	1.50		
Depth Base m	-		
Sample Type	D		
Samples received	17/05/2022		
Schedules received	16/05/2022		
Project Started	17/05/2022		
Date Tested	17/08/2022		

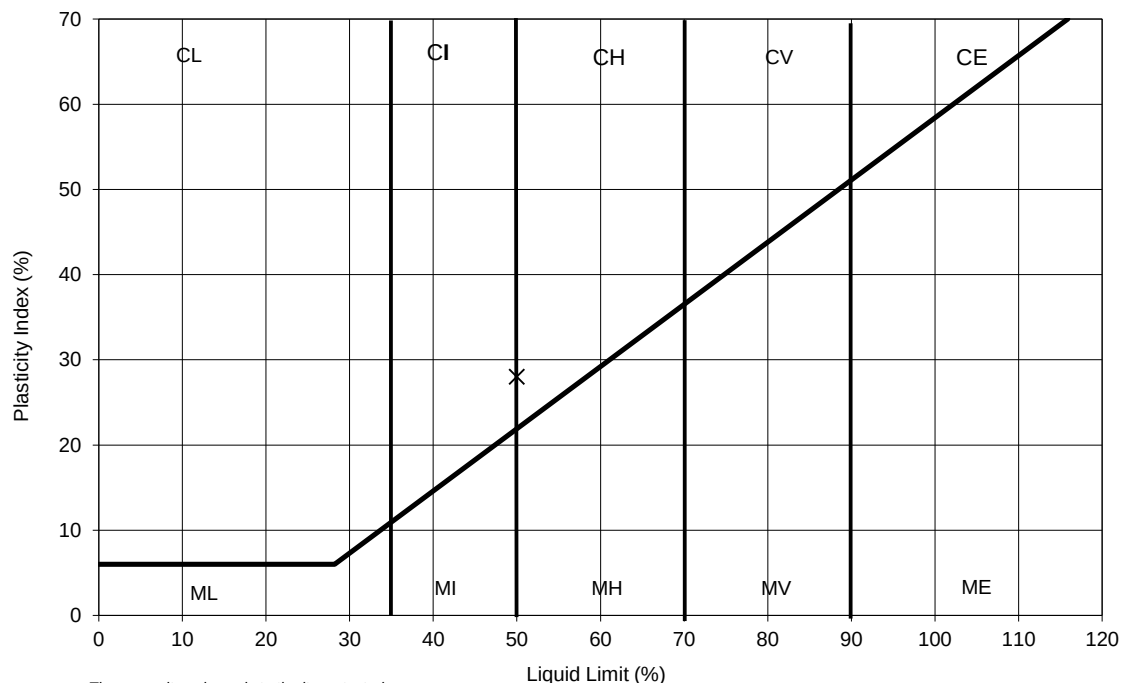


NATURAL MOISTURE CONTENT	20	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	50	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	28	%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS91

Site Name North Horsham II

Sample No. 6

Project No. GE20724

Client

GESL

Depth Top m 2.00

Soil Description

light grey and brown mottled silty CLAY

Depth Base m -

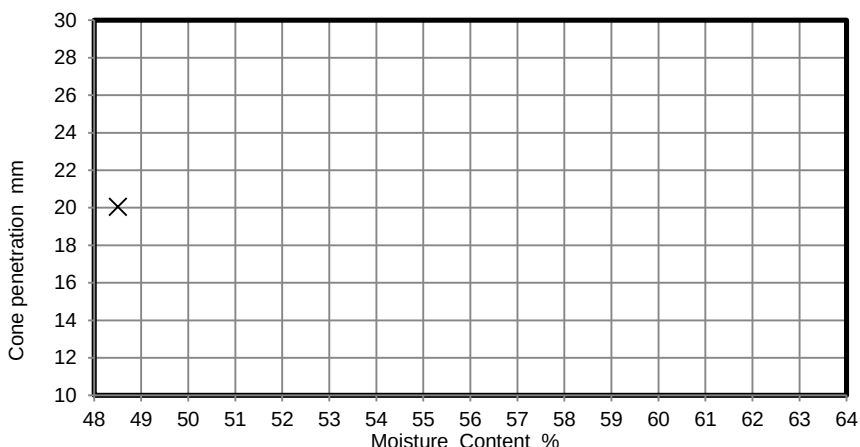
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

17

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

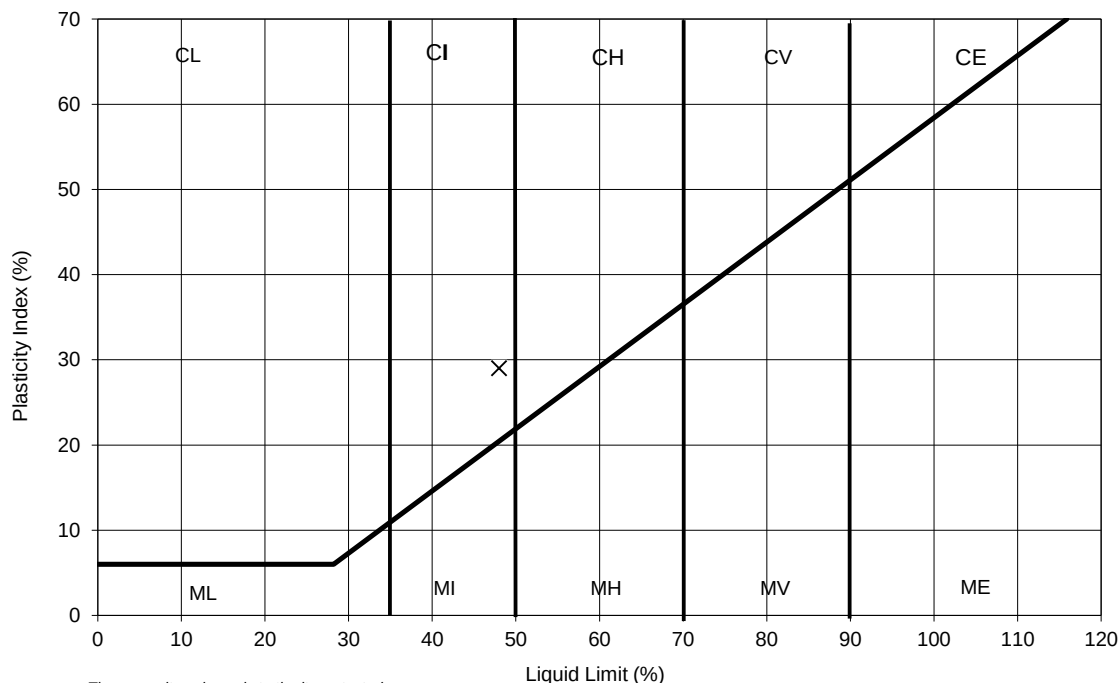
29

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS92

Site Name North Horsham II

Sample No. 5

Project No. GE20724

Client

GESL

Depth Top m 1.50

Soil Description

Yellowish brown and light grey slightly sandy slightly gravelly silty CLAY (gravel is fm and angular to sub-angular weakly to strongly cemented siltstone fragments)

Depth Base m -

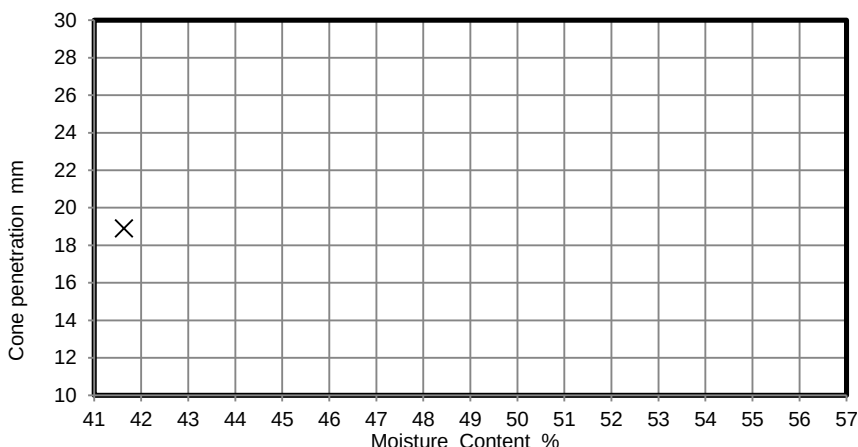
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

90

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

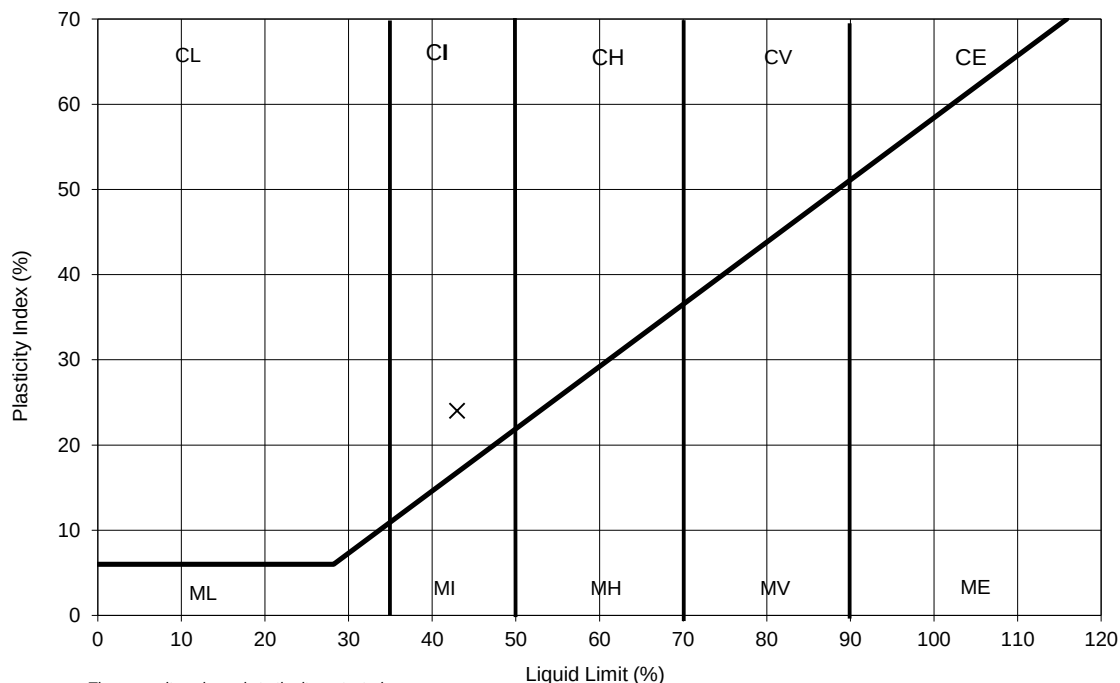
24

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

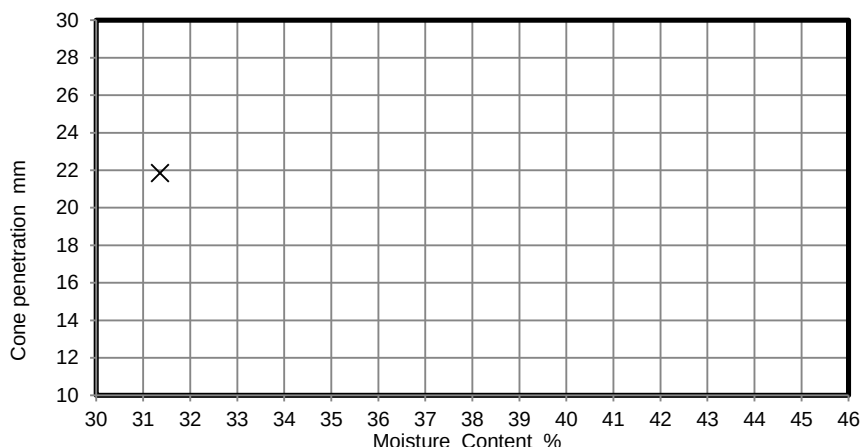
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	31873
				Borehole/Pit No.	WS93
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top m	1.00
Soil Description	Light brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular weakly to strongly cemented siltstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	17/05/2022
				Schedules received	16/05/2022
				Project Started	17/05/2022
				Date Tested	14/07/2022



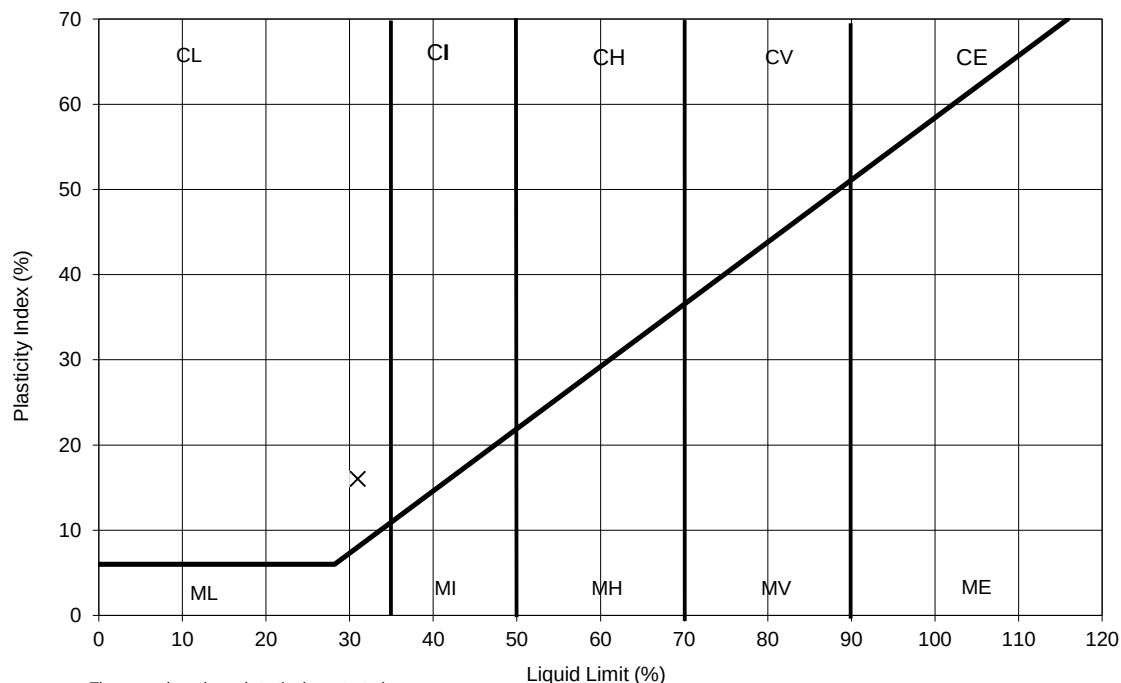
NATURAL MOISTURE CONTENT	8.9	%
% PASSING 425µm SIEVE	43	%
LIQUID LIMIT	31	%
PLASTIC LIMIT	15	%
PLASTICITY INDEX	16	%

Remarks

Sample washed to obtain test fraction

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS94

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description Orangish brown slightly mottled bluish grey slightly sandy silty CLAY

Depth Base m -

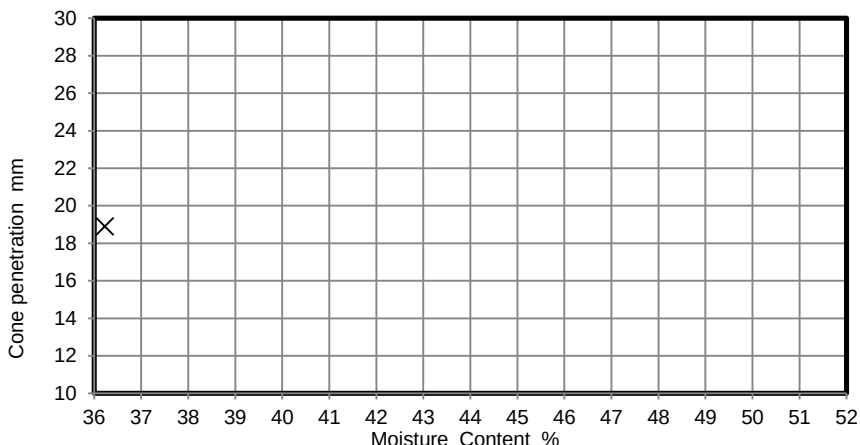
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/06/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

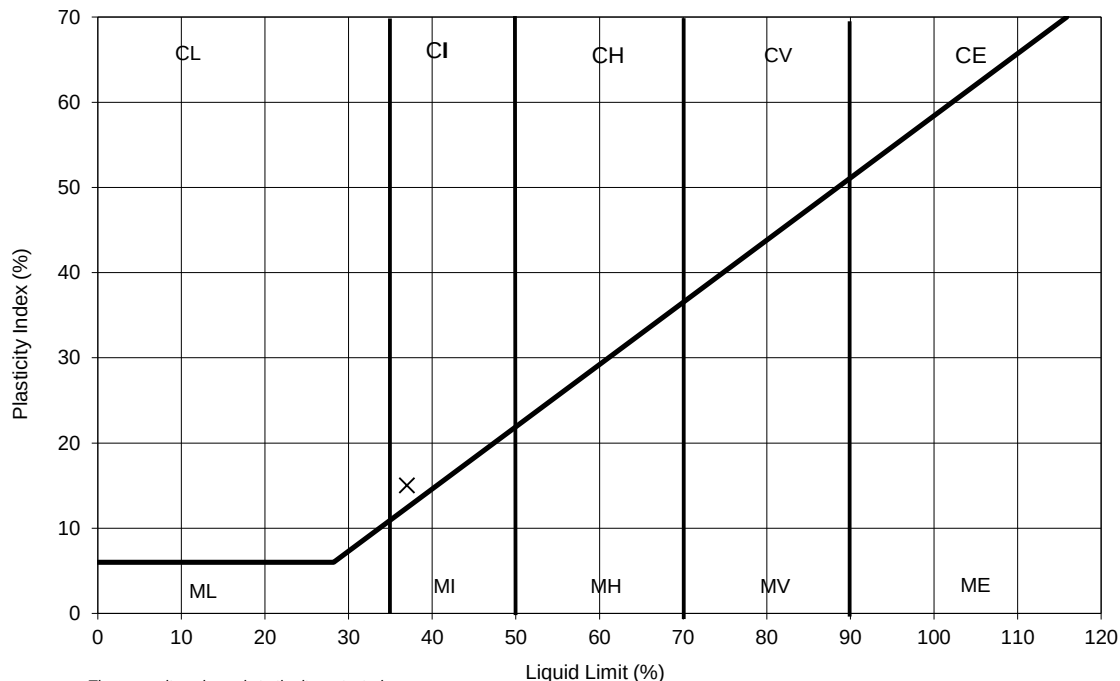
15

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS95

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

light grey and brown mottled silty CLAY

Depth Base m -

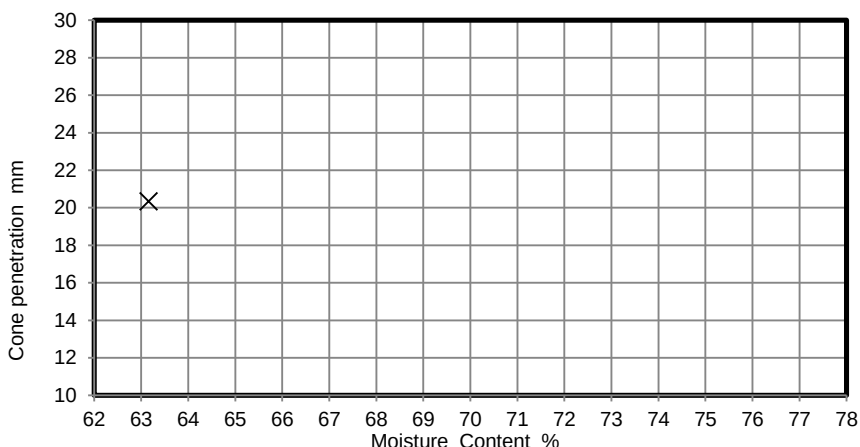
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

63

%

PLASTIC LIMIT

25

%

PLASTICITY INDEX

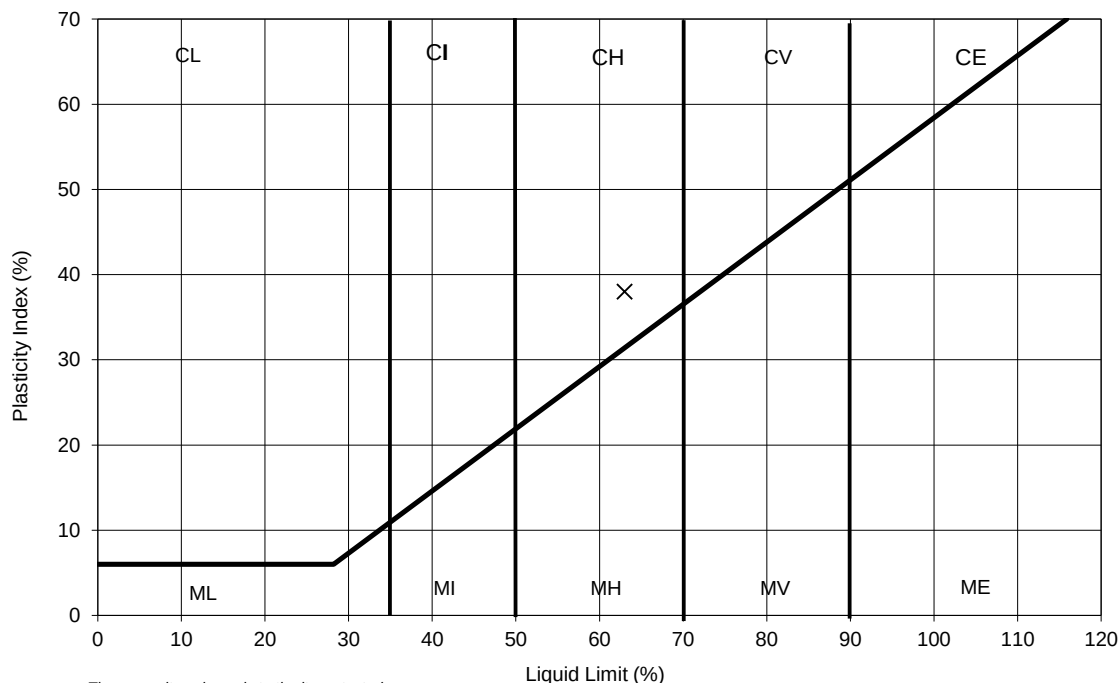
38

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS96

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description

light grey and yellowish brown mottled very silty CLAY

Depth Base m -

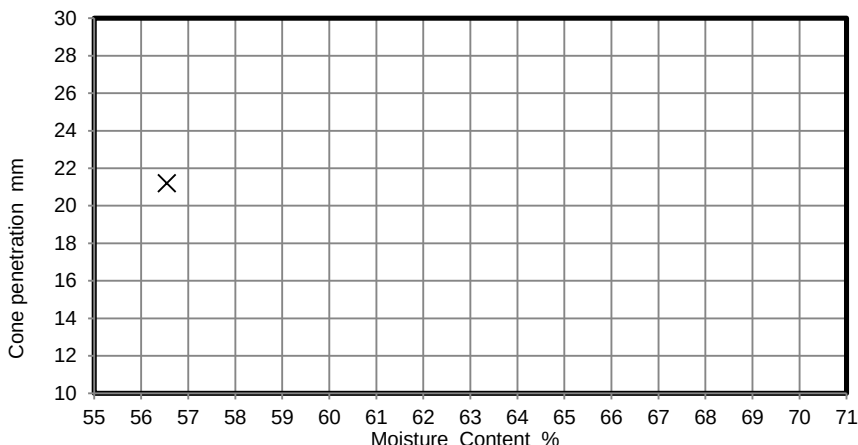
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 17/08/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

55

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

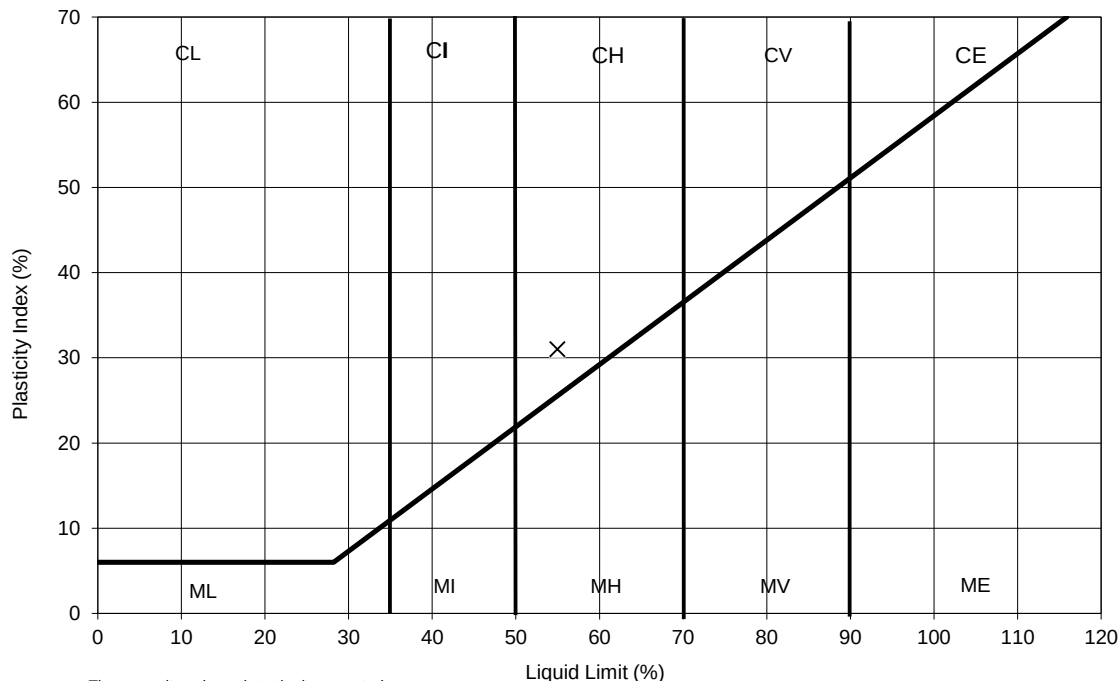
31

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS97

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top m 1.00

Soil Description Orangish brown and light grey silty CLAY with traces of fine rootlets

Depth Base m -

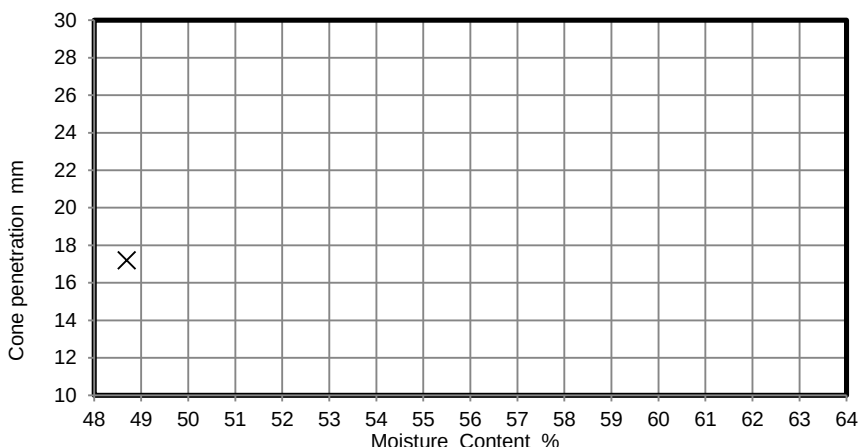
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 30/06/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

24

%

PLASTICITY INDEX

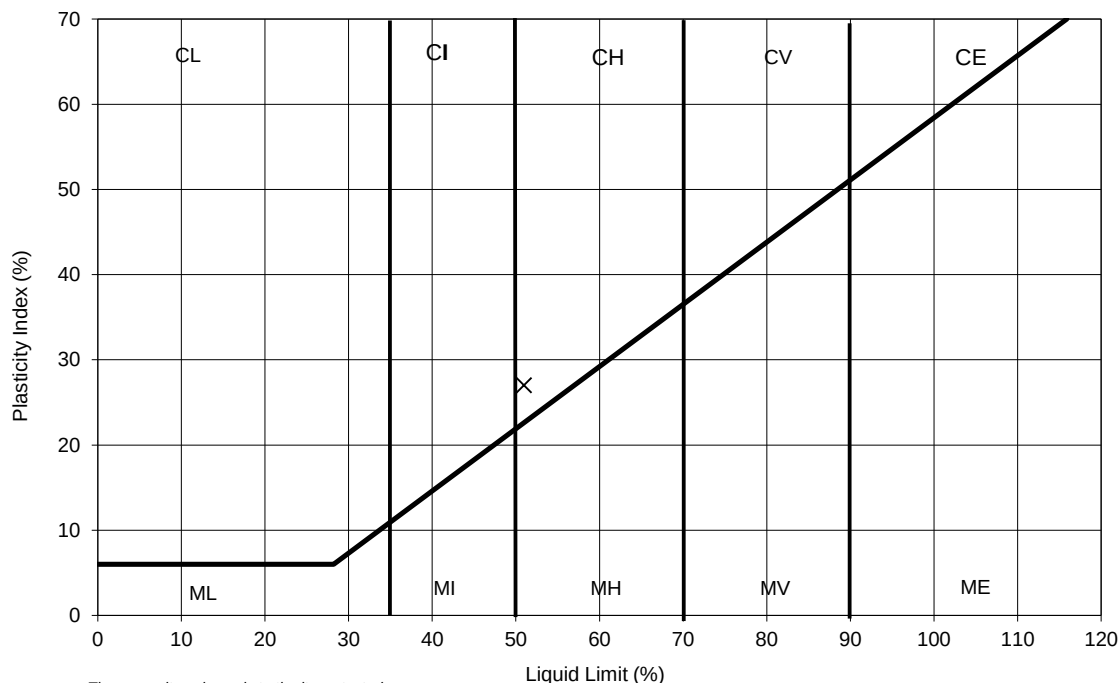
27

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. WS98

Site Name North Horsham II

Sample No. 2

Project No. GE20724

Client

GESL

Depth Top m 0.50

Soil Description

Brown and orangish brown mottled silty CLAY with rare fine rootlets

Depth Base m -

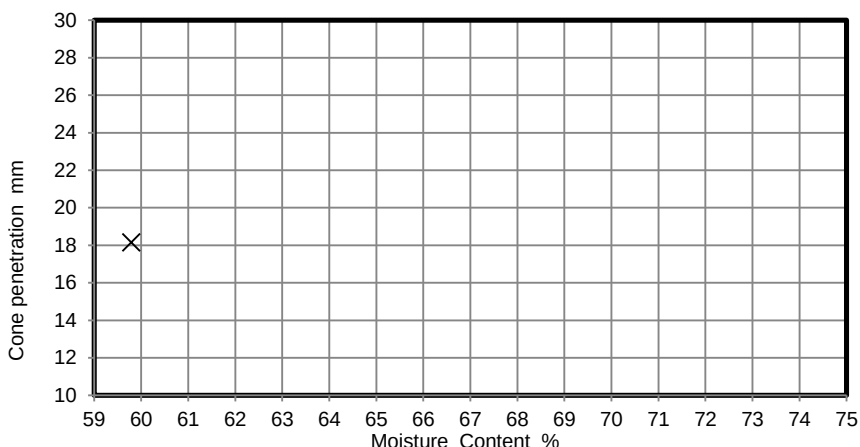
Sample Type D

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 04/08/2022



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

62

%

PLASTIC LIMIT

29

%

PLASTICITY INDEX

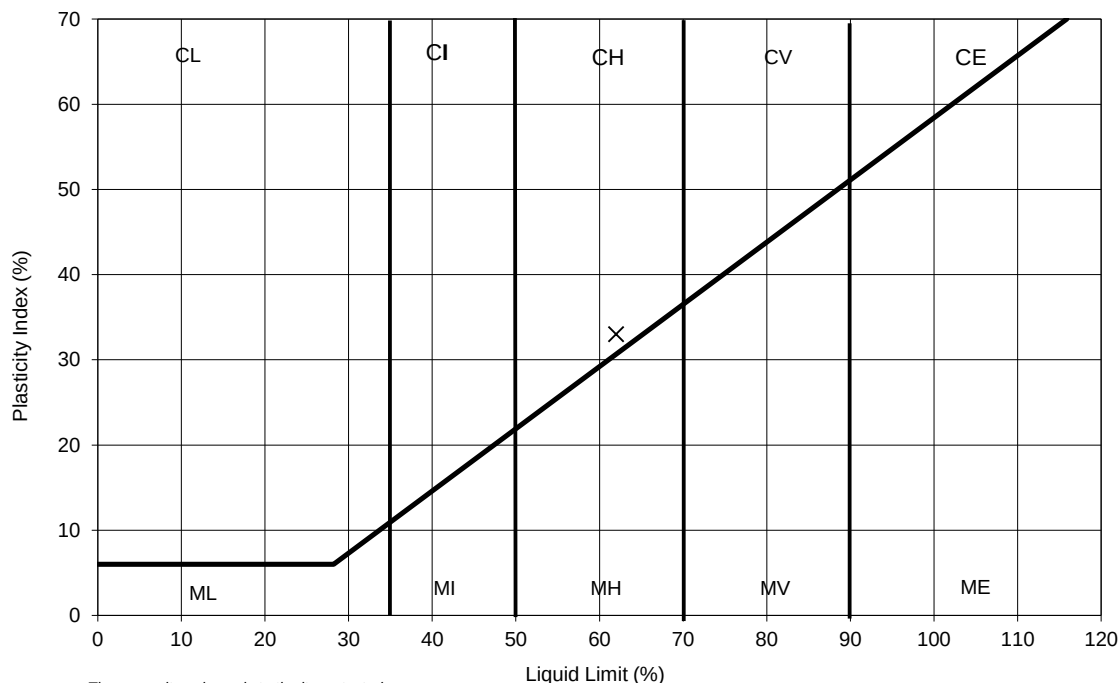
33

%

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR58

Site Name North Horsham II

Sample No. 4

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

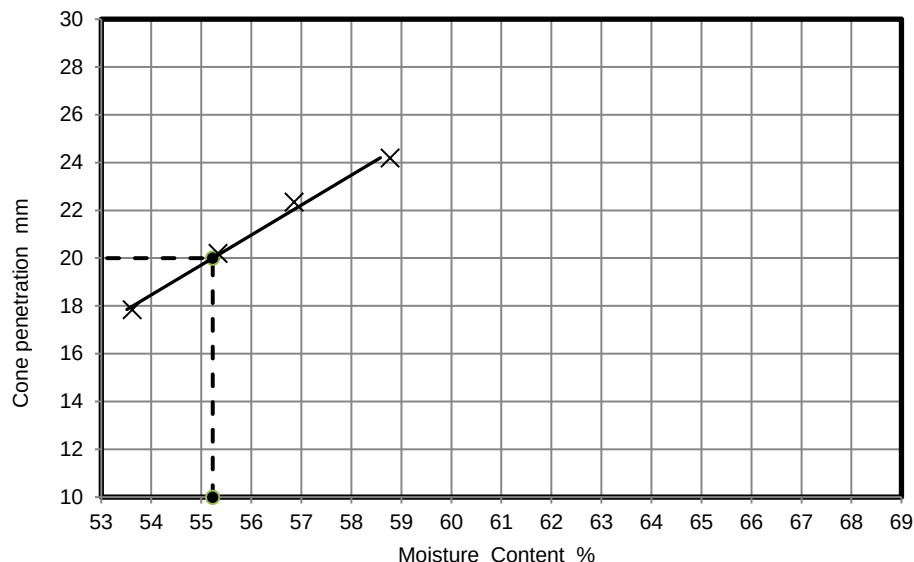
Soil Description Light brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

55

%

PLASTIC LIMIT

26

%

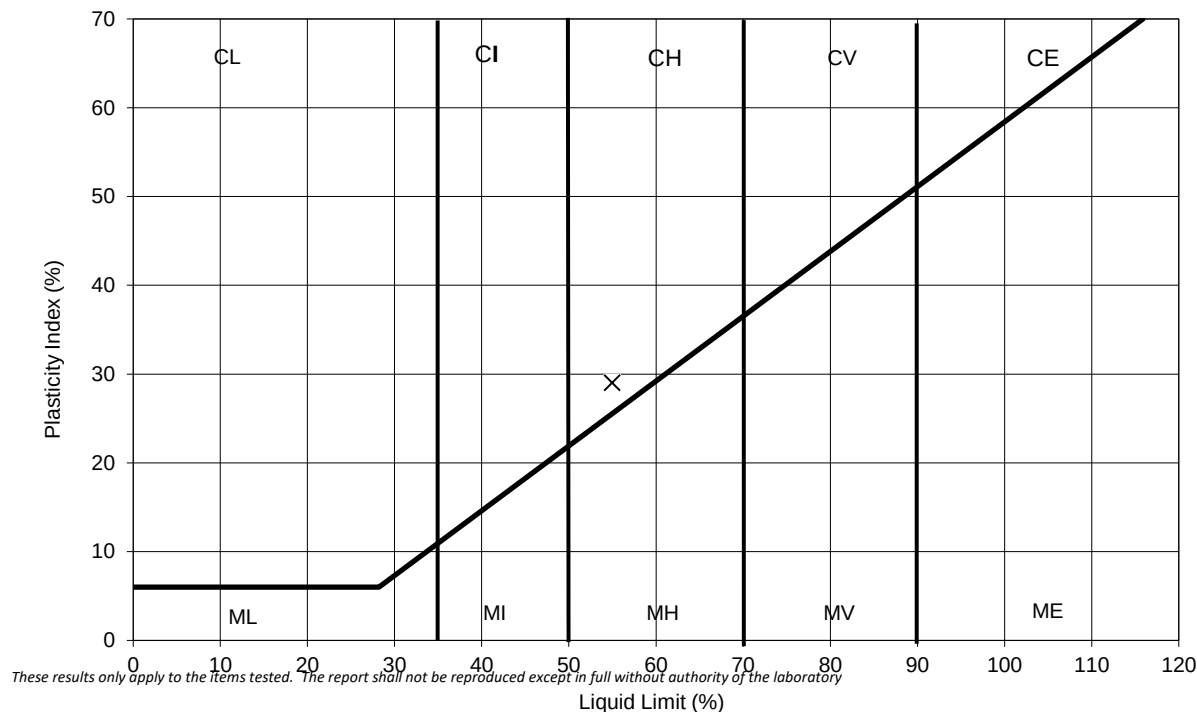
PLASTICITY INDEX

29

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR33

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

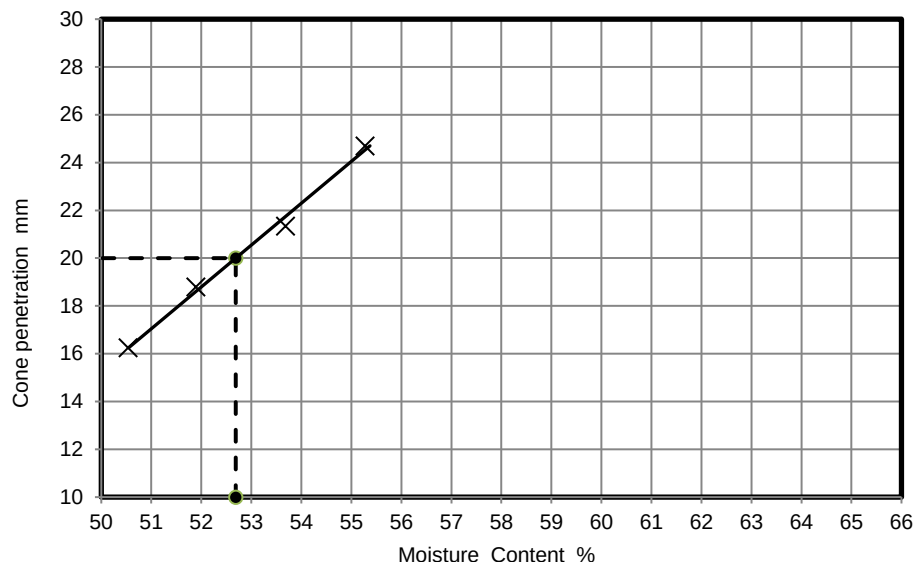
Soil Description Light brown slightly sandy silty CLAY with rare fine gravel and roots

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

53

%

PLASTIC LIMIT

25

%

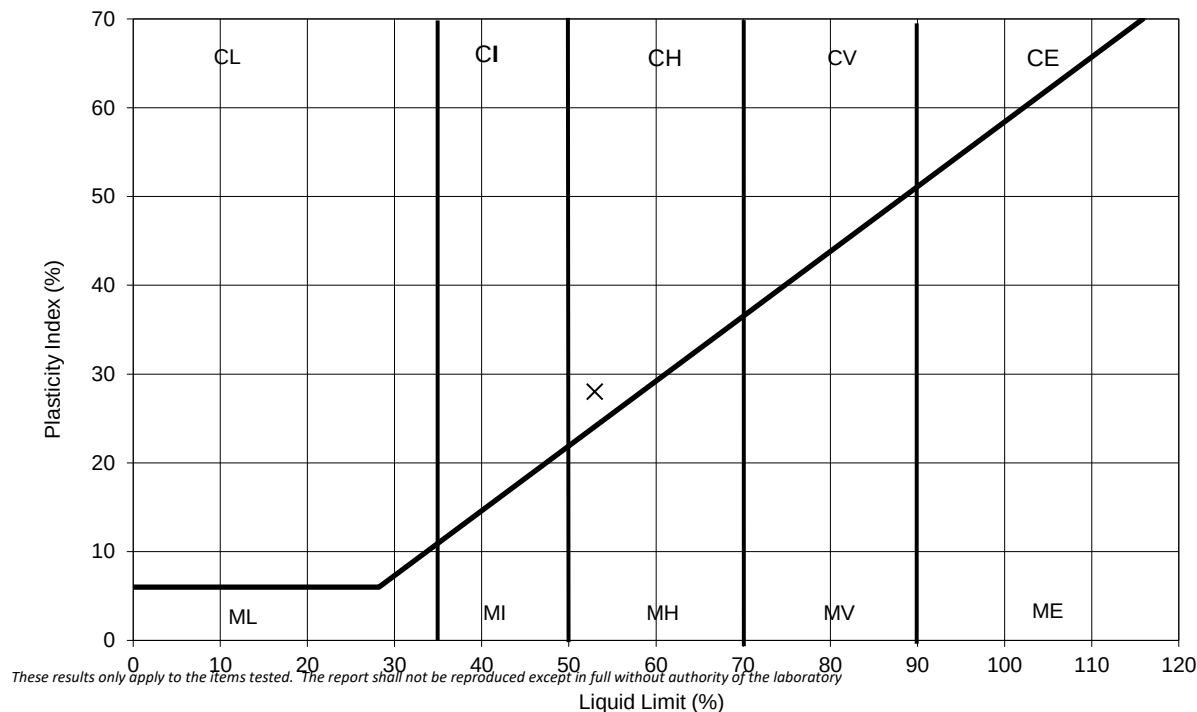
PLASTICITY INDEX

28

%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR32

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

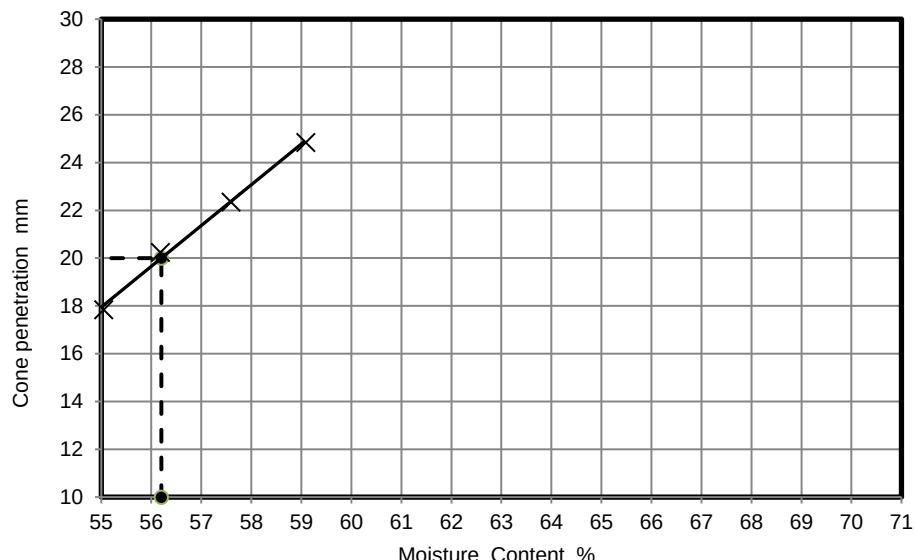
Light brown, locally ironstained, slightly sandy silty CLAY with rare fmc mudstone fragments

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

19 %

% PASSING 425µm SIEVE

95 %

LIQUID LIMIT

56 %

PLASTIC LIMIT

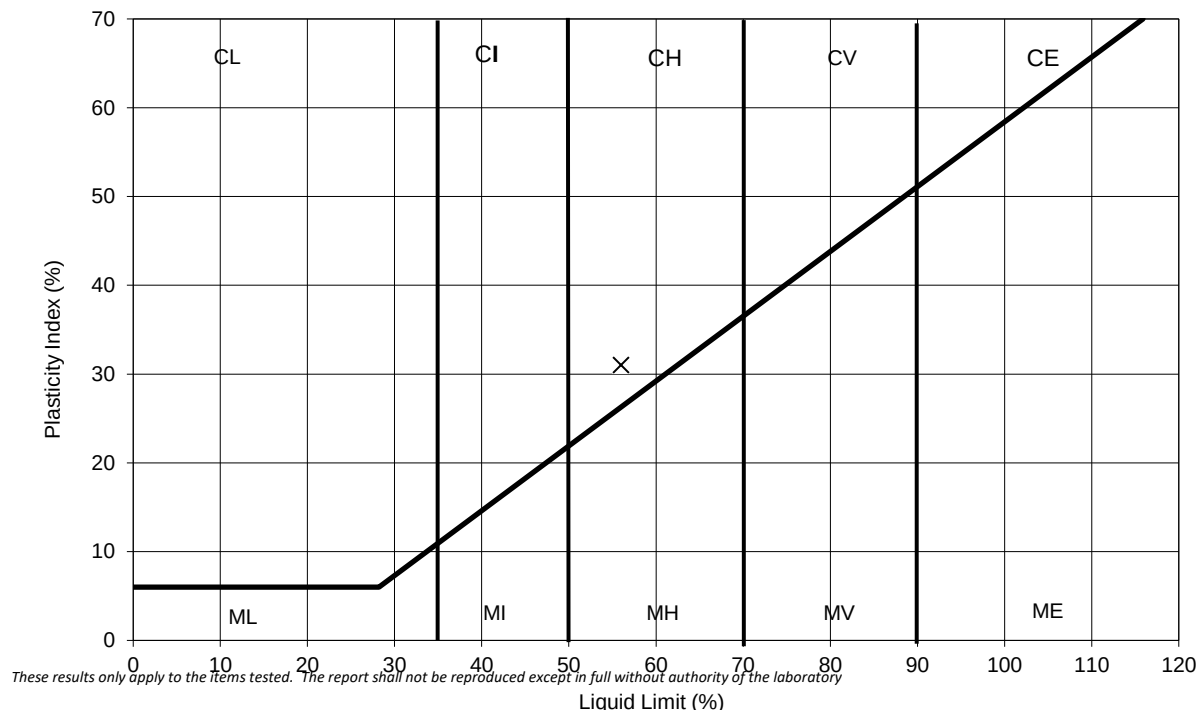
25 %

PLASTICITY INDEX

31 %

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2

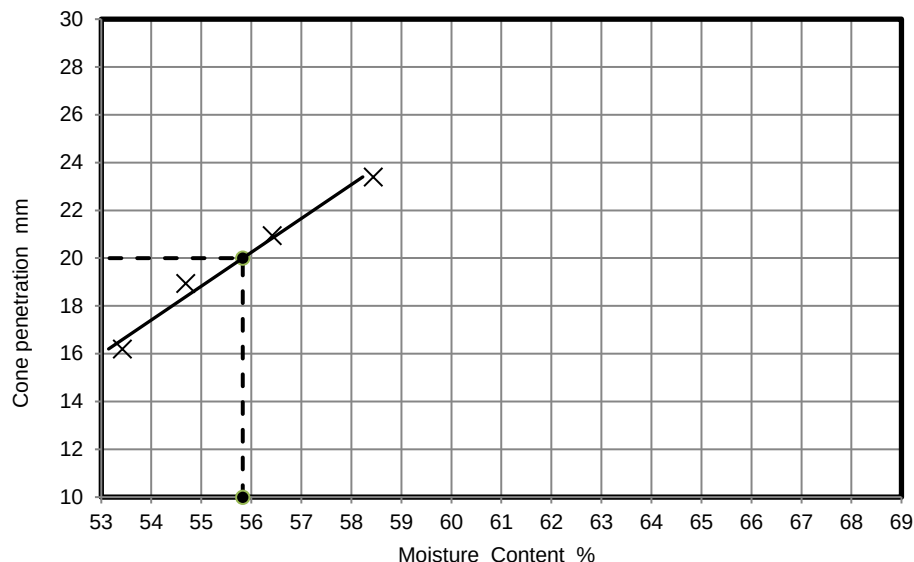




LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR31
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	12/08/2022

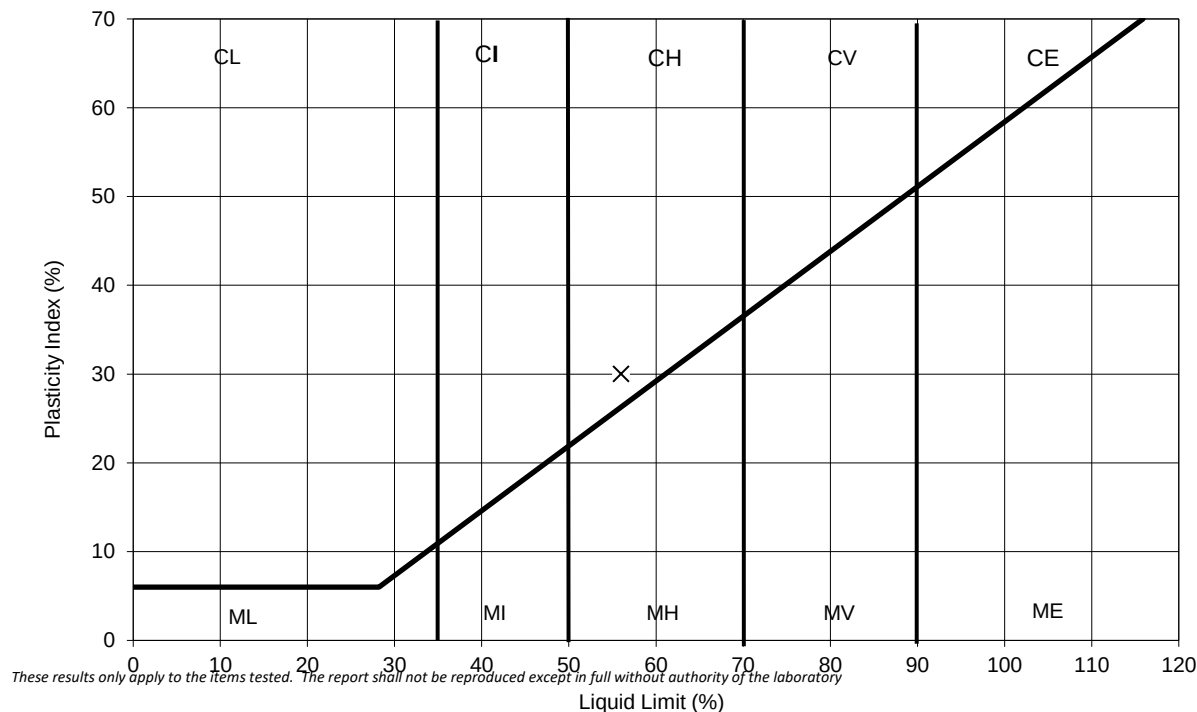
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light brown slightly sandy silty CLAY with rare fine gravel and rootlets		



NATURAL MOISTURE CONTENT	22	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	56	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	30	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

MSF-5 R2



2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR30

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

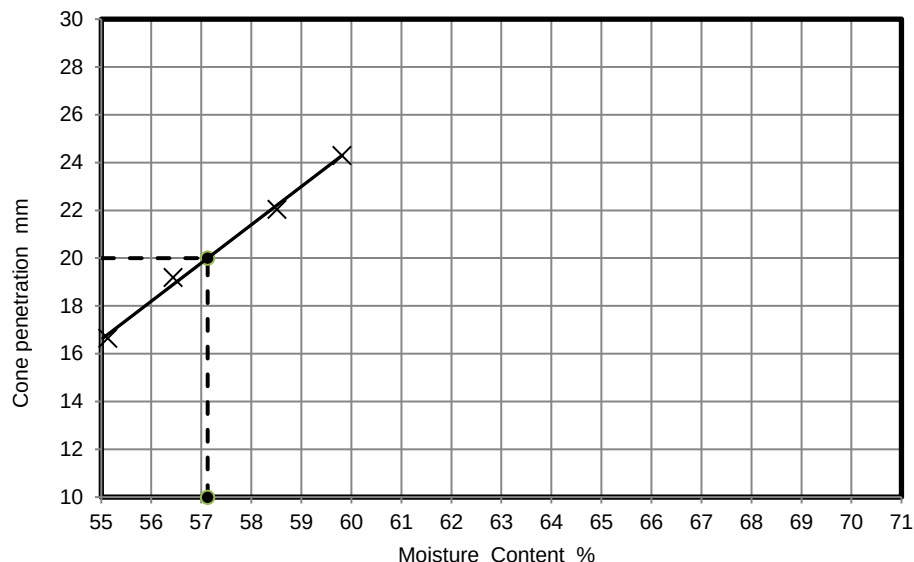
Soil Description Light brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

57

%

PLASTIC LIMIT

26

%

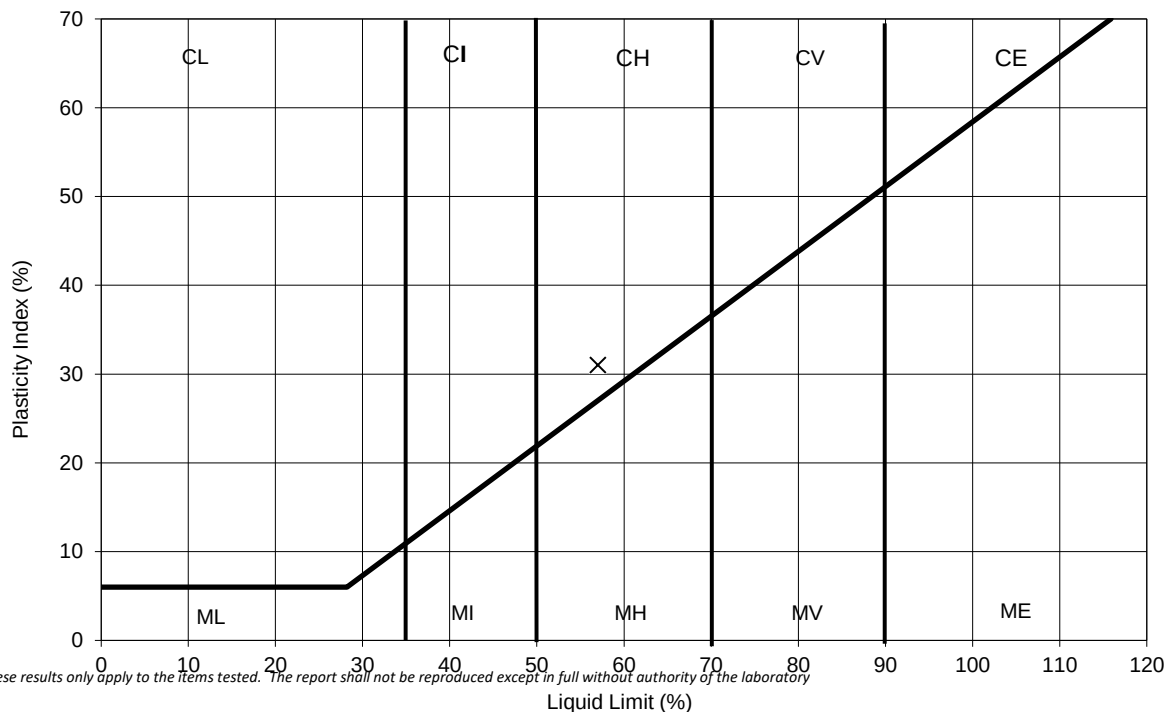
PLASTICITY INDEX

31

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR57

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

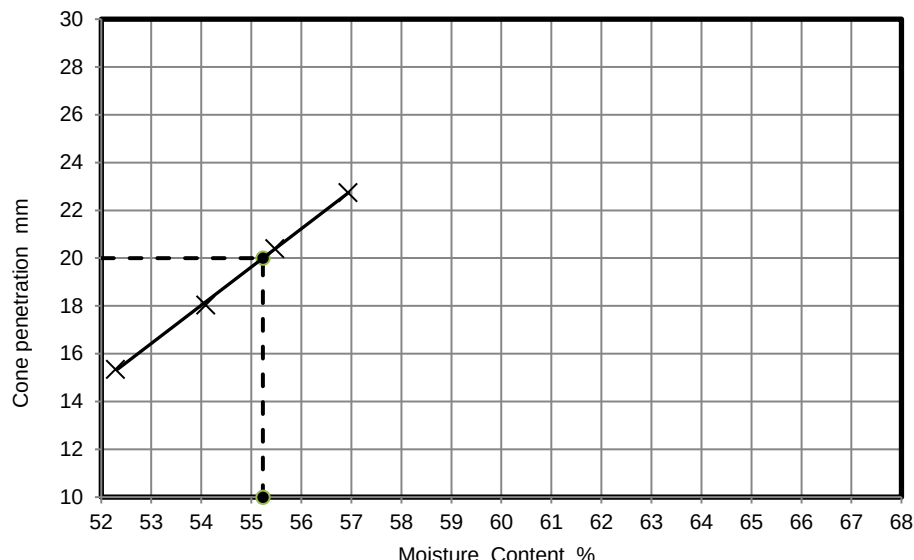
Brown, locally ironstained, slightly sandy silty CLAY with rare fm mudstone fragments

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

55

%

PLASTIC LIMIT

27

%

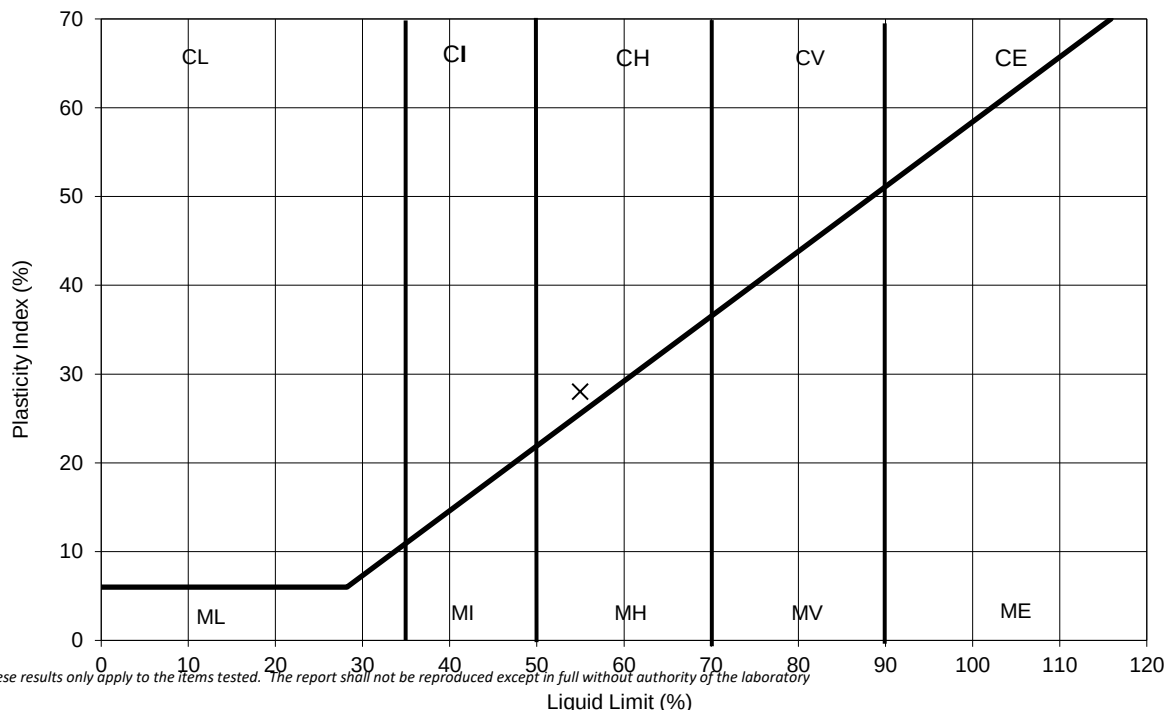
PLASTICITY INDEX

28

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR56

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

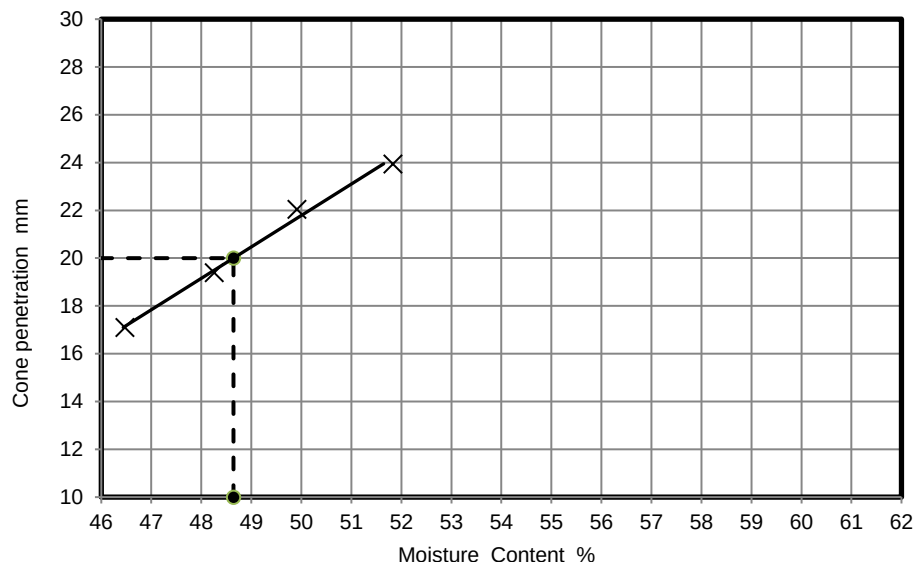
Brown and light brown, locally ironstained, slightly sandy silty CLAY with rare fm gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

49

%

PLASTIC LIMIT

24

%

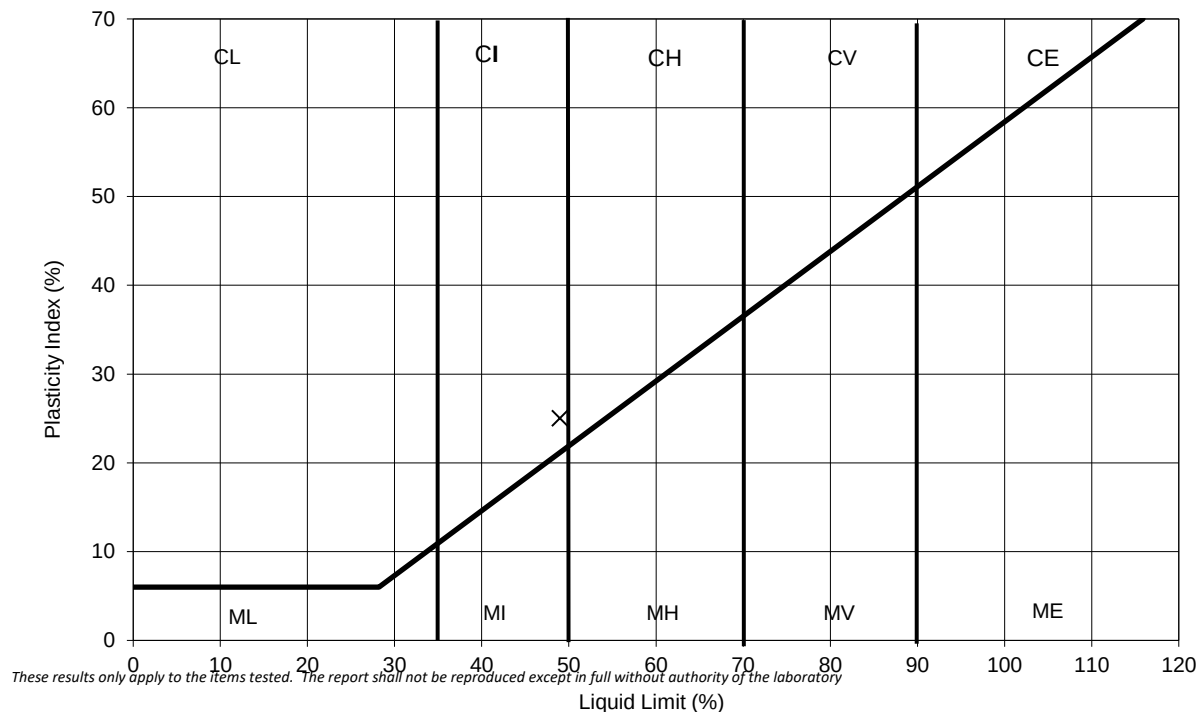
PLASTICITY INDEX

25

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR55

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Soil Description

Light brown mottled orangish brown slightly sandy silty CLAY with rare fm gravel

Samples received

17/05/2022

Schedules received

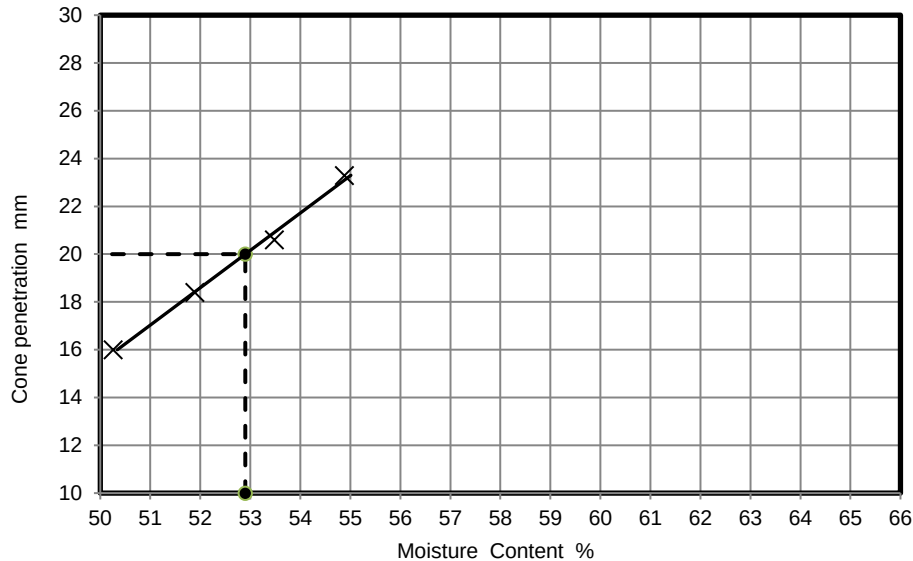
16/05/2022

Project Started

17/05/2022

Date Tested

12/08/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

53

%

PLASTIC LIMIT

26

%

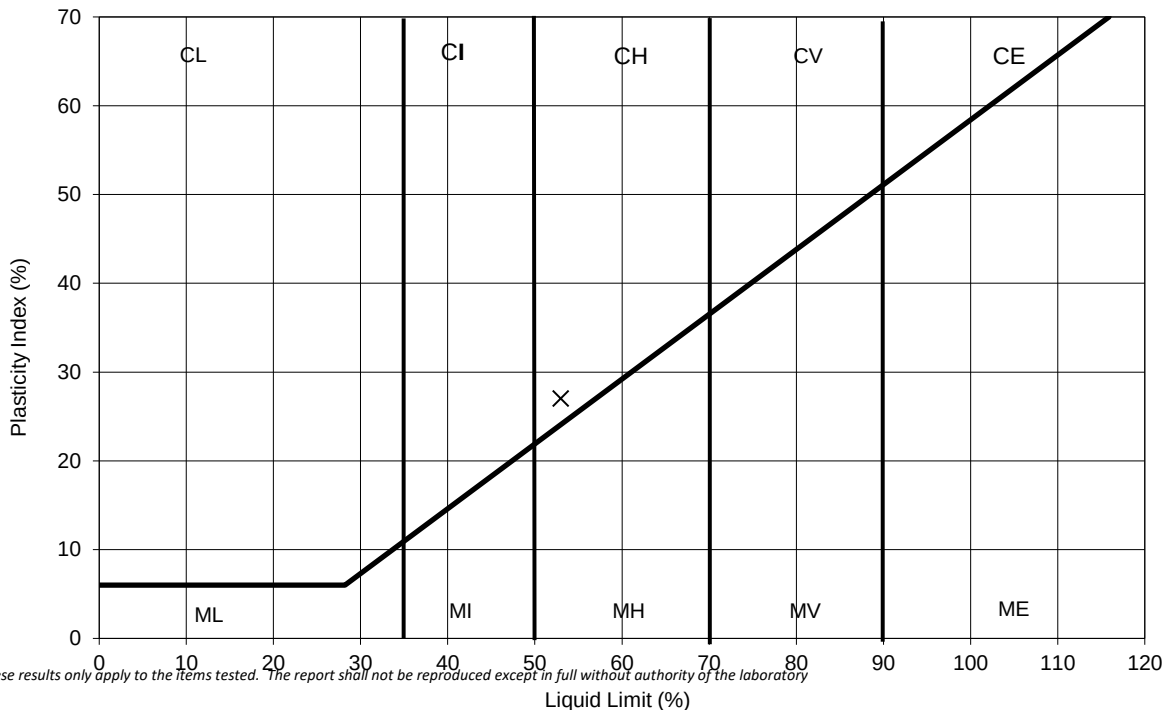
PLASTICITY INDEX

27

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR54

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

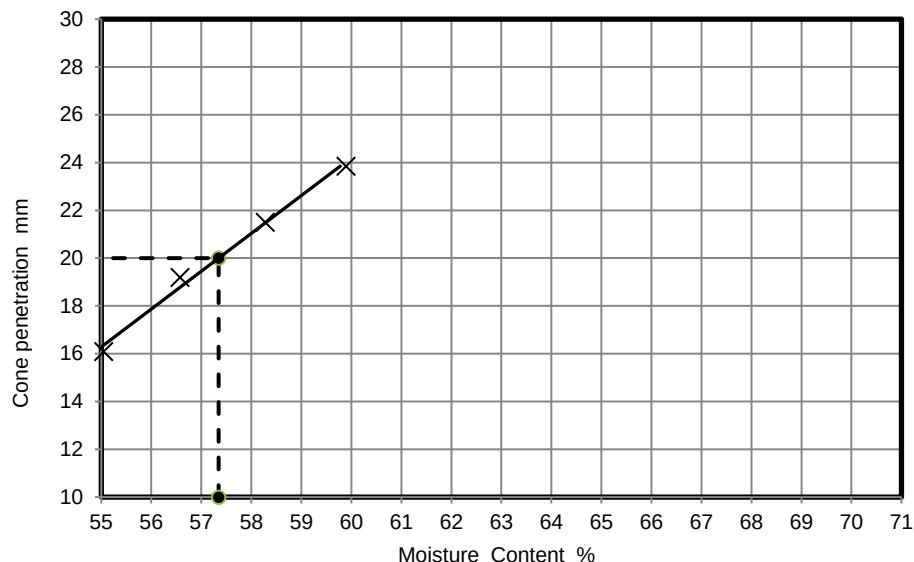
Brown, orangish brown and light grey mottled silty CLAY with sandy patches and rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

57

%

PLASTIC LIMIT

26

%

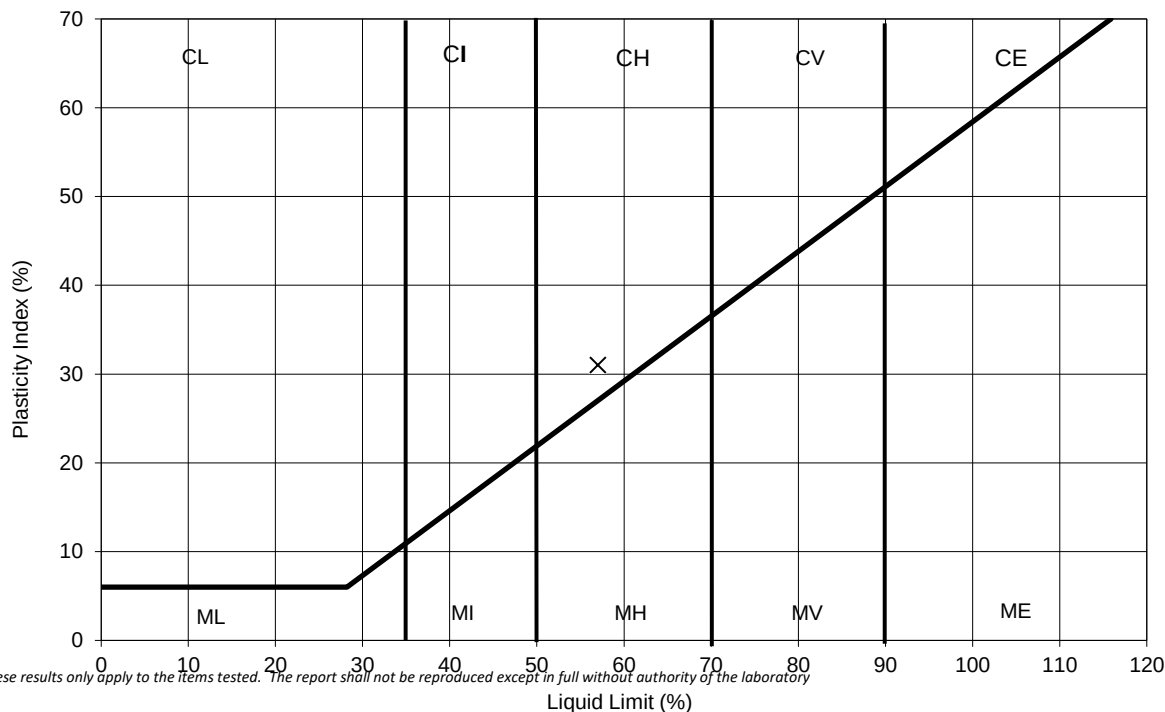
PLASTICITY INDEX

31

%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR53

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

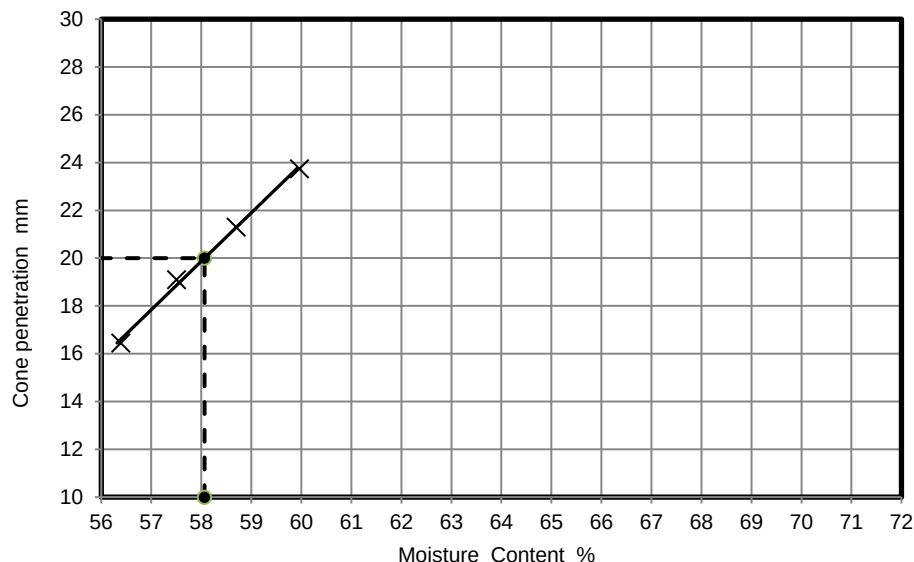
Brown mottled orangish brown and light grey silty CLAY with sandy patches and rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

58

%

PLASTIC LIMIT

27

%

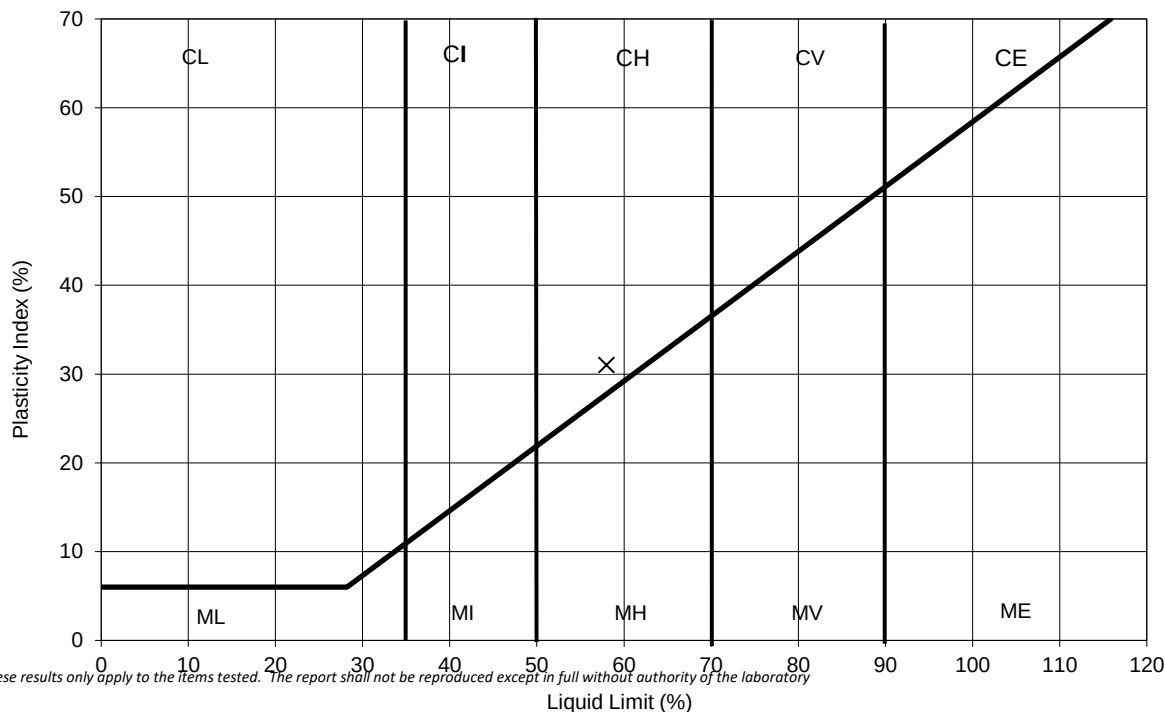
PLASTICITY INDEX

31

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR52

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

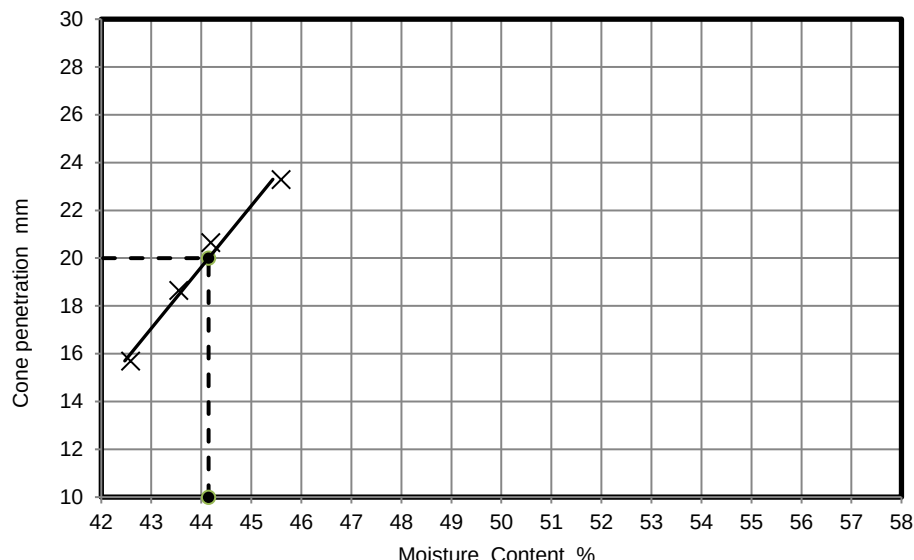
Brown, greyish brown and orangish brown mottled, locally ironstained, sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

44

%

PLASTIC LIMIT

21

%

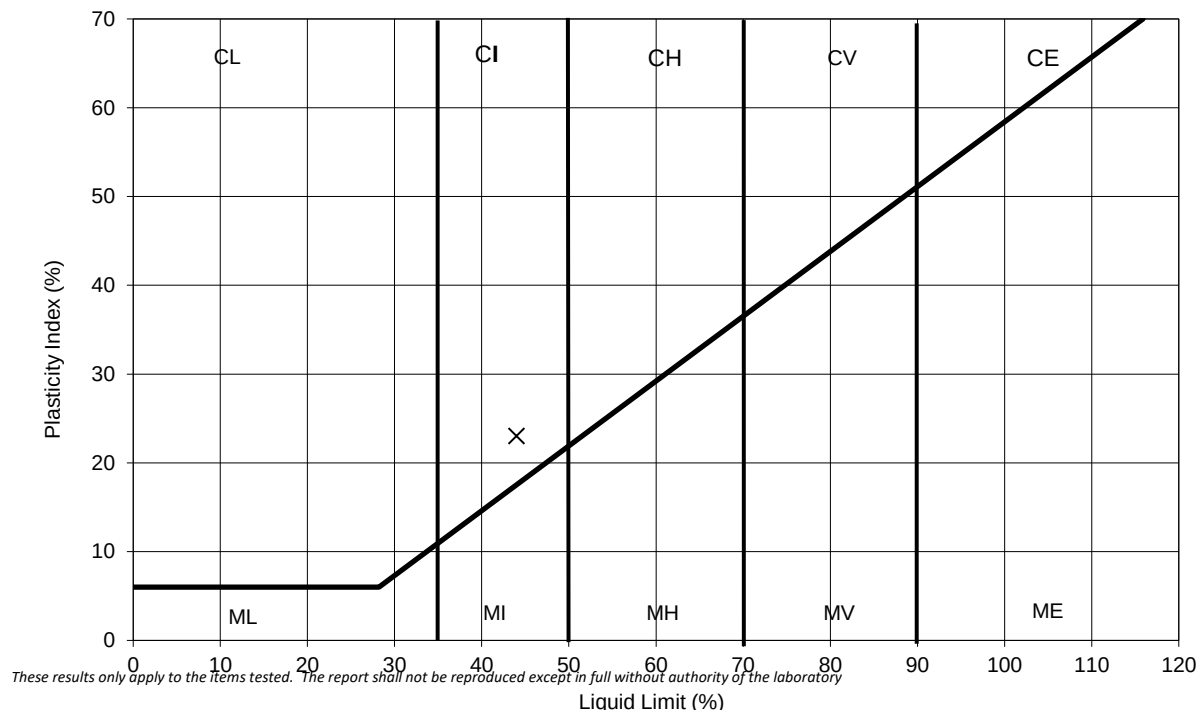
PLASTICITY INDEX

23

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR51

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Soil Description

Brown, orangish brown and light grey mottled slightly sandy silty CLAY with rare fine gravel

Samples received

17/05/2022

Schedules received

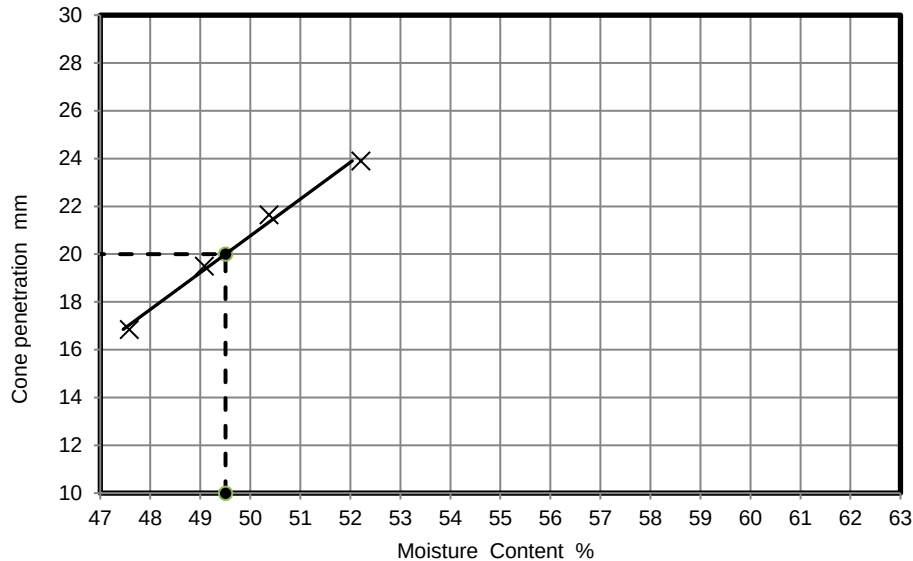
16/05/2022

Project Started

17/05/2022

Date Tested

12/08/2022



NATURAL MOISTURE CONTENT

19

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

23

%

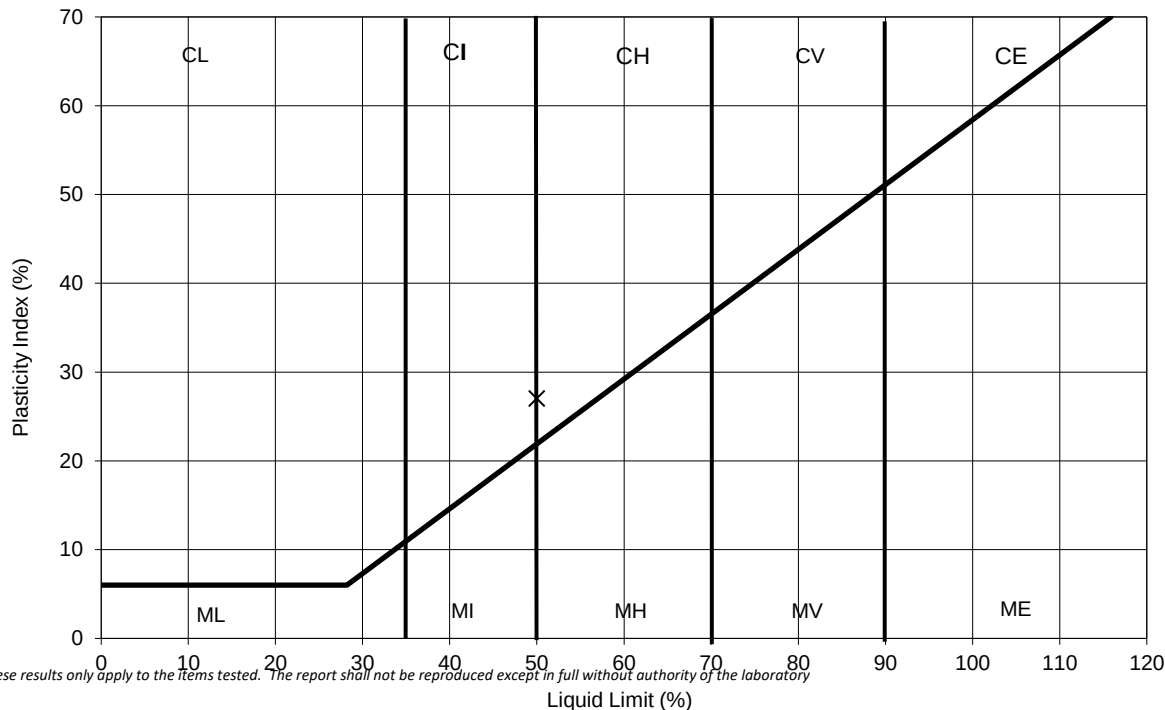
PLASTICITY INDEX

27

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR50

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

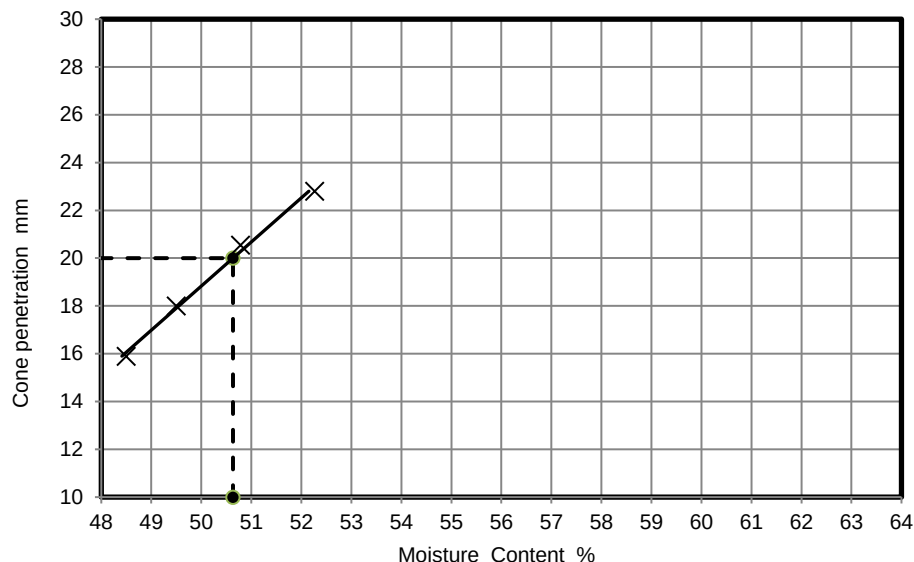
Brown and orangish brown mottled slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

24

%

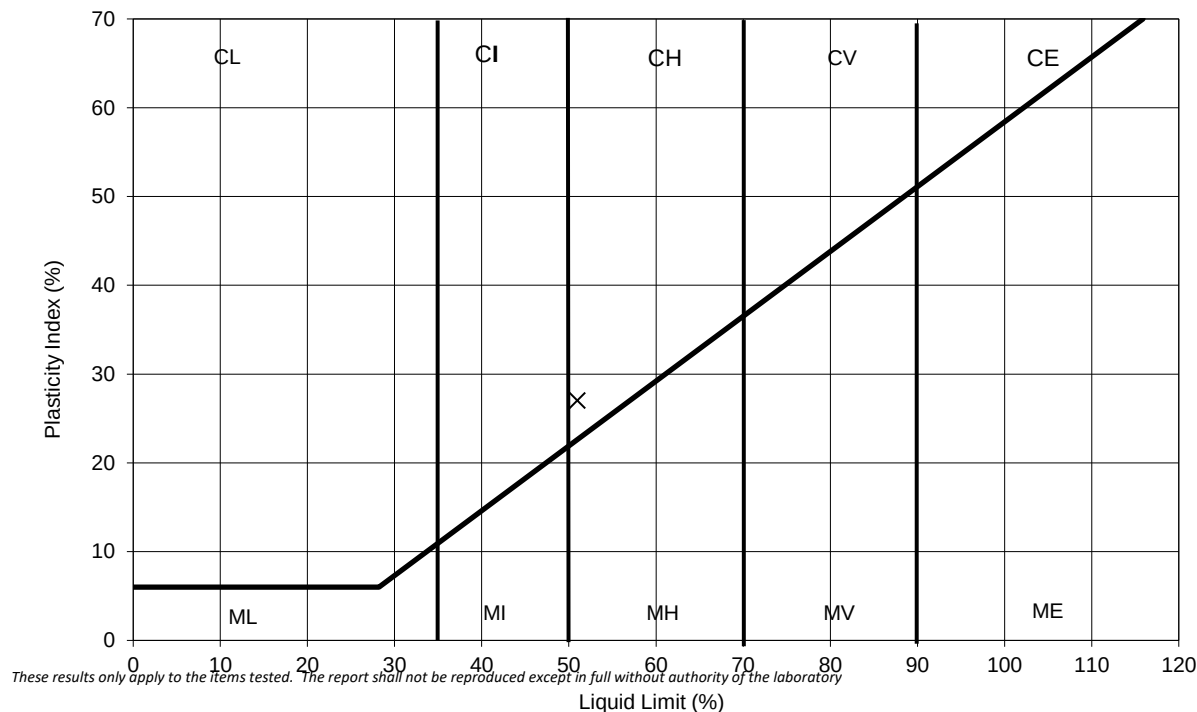
PLASTICITY INDEX

27

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR49

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

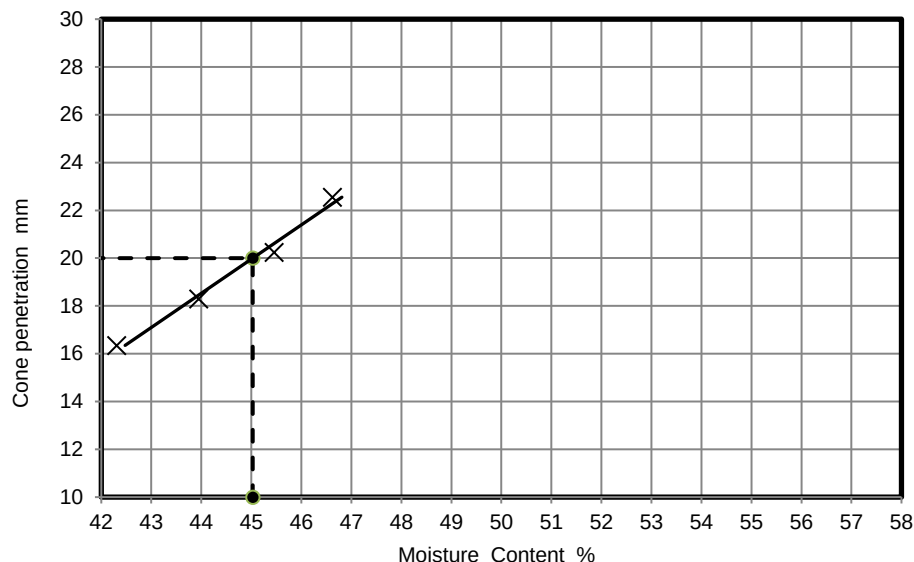
Soil Description Brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

19 %

% PASSING 425µm SIEVE

99 %

LIQUID LIMIT

45 %

PLASTIC LIMIT

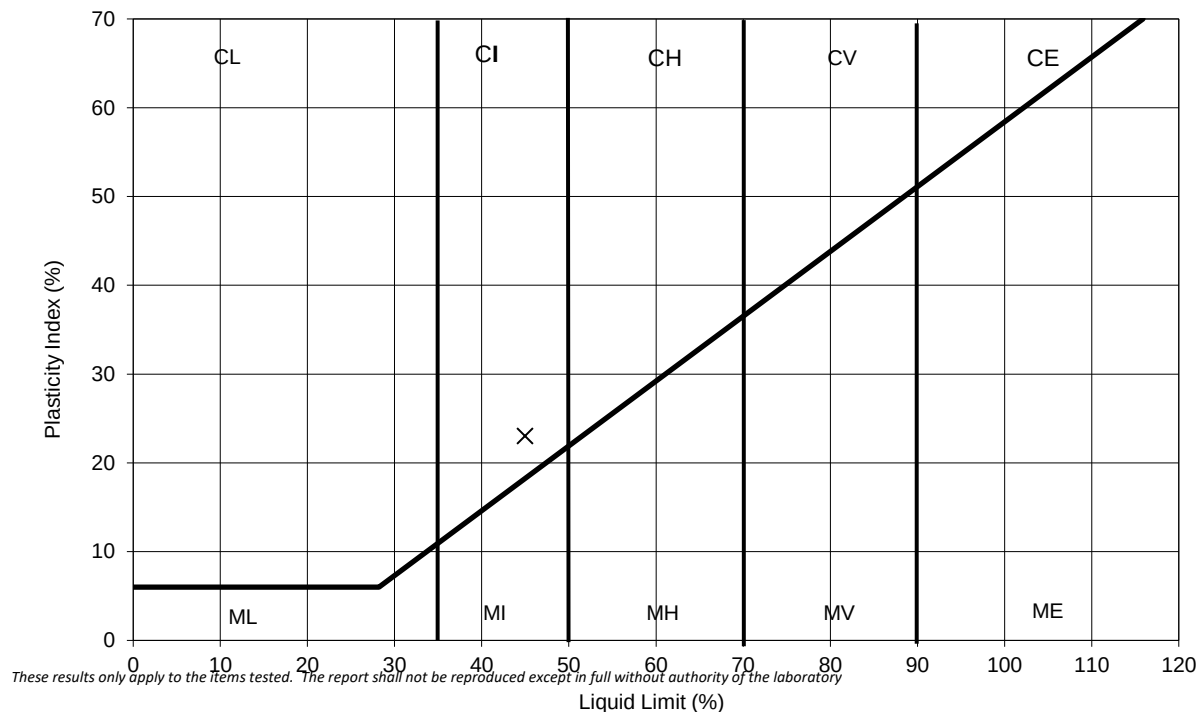
22 %

PLASTICITY INDEX

23 %

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR48

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

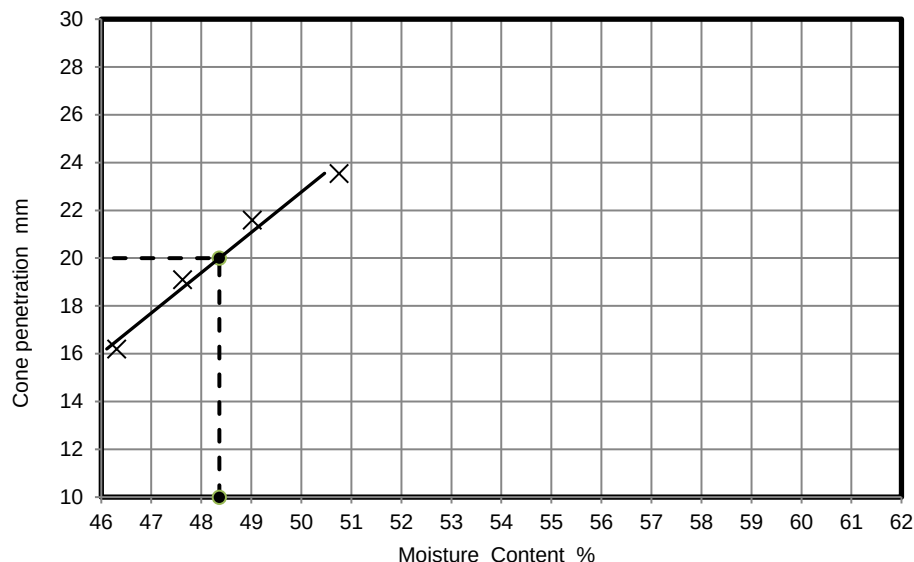
Brown, orangish brown and light grey mottled, locally ironstained, slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

23

%

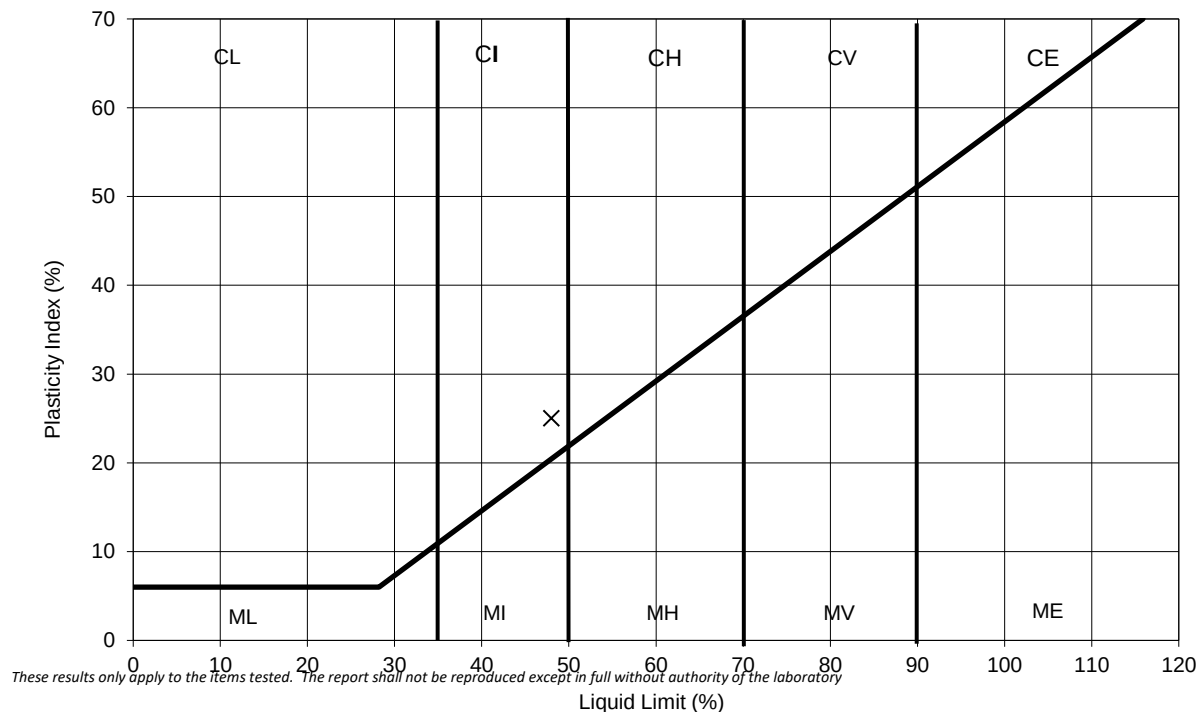
PLASTICITY INDEX

25

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR47

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

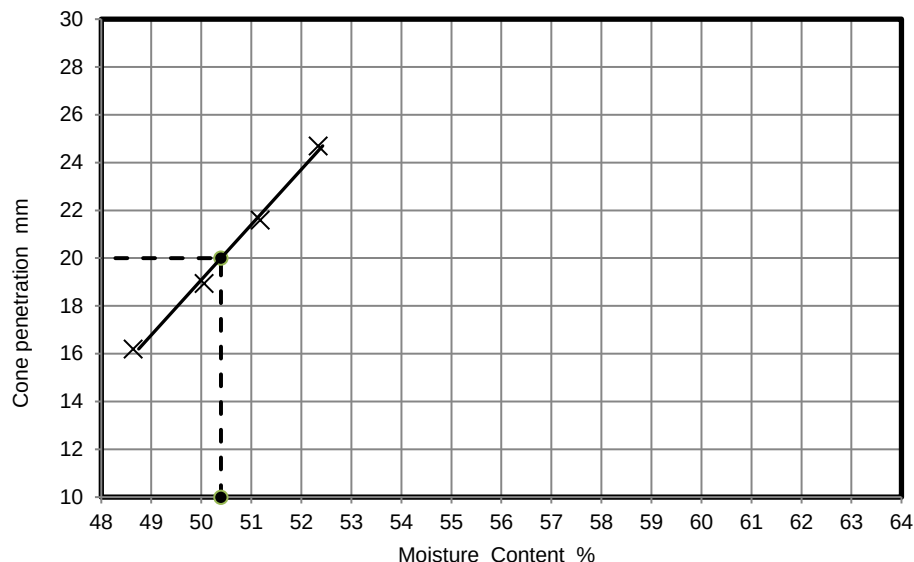
Brown slightly sandy silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

25

%

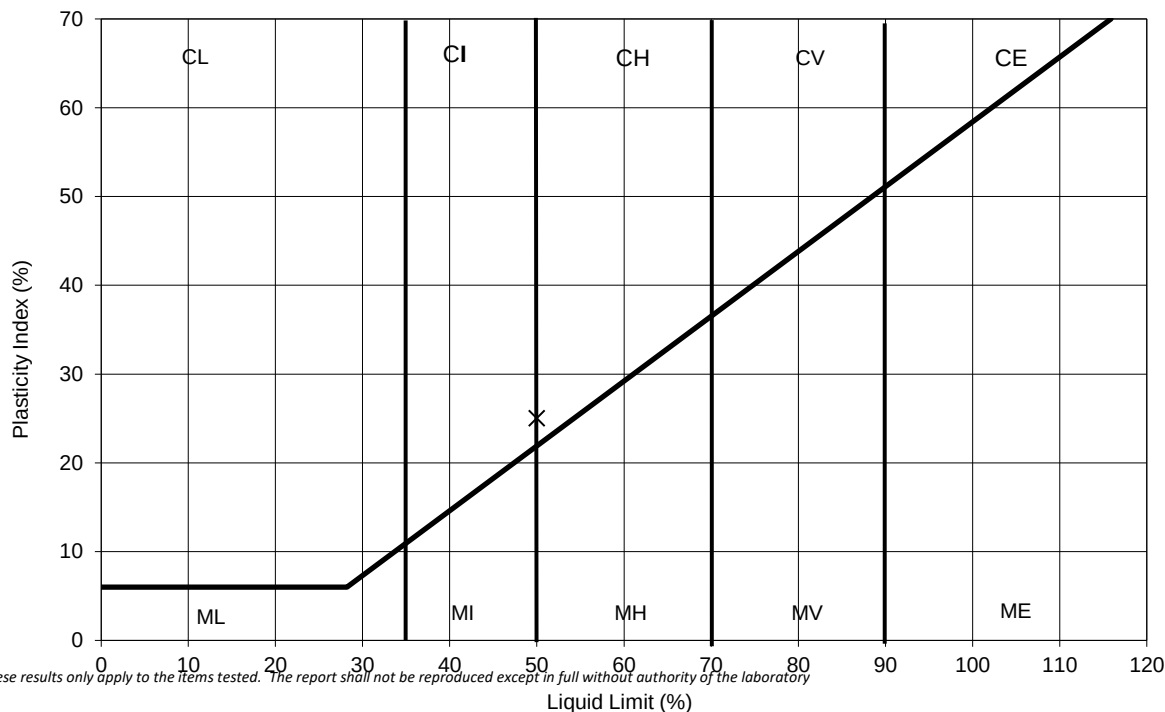
PLASTICITY INDEX

25

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR46

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

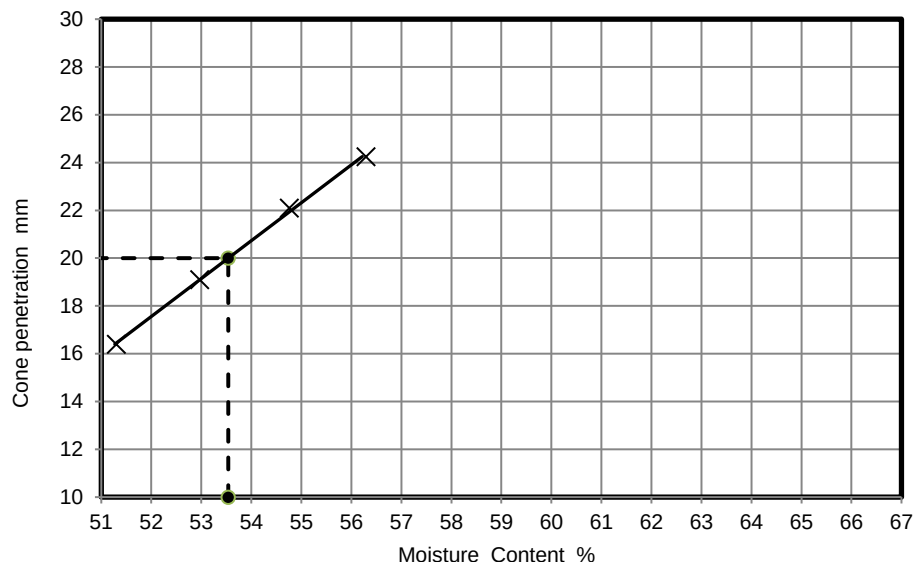
Soil Description Light brown mottled orangish brown silty CLAY with sandy patches

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

54

%

PLASTIC LIMIT

24

%

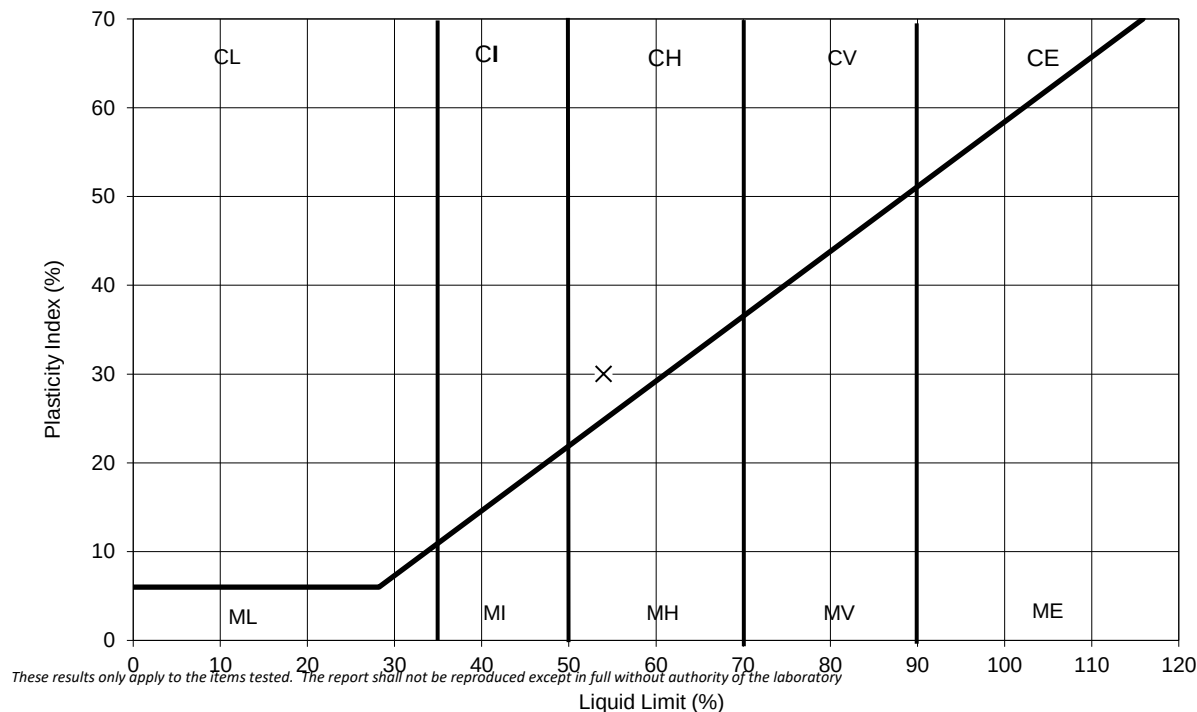
PLASTICITY INDEX

30

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR45

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

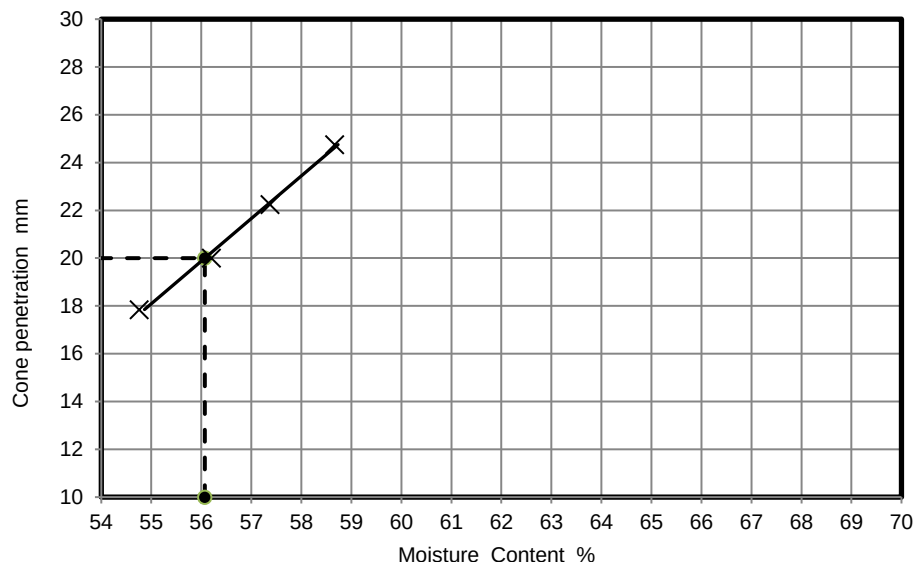
Light brown slightly sandy silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

56

%

PLASTIC LIMIT

28

%

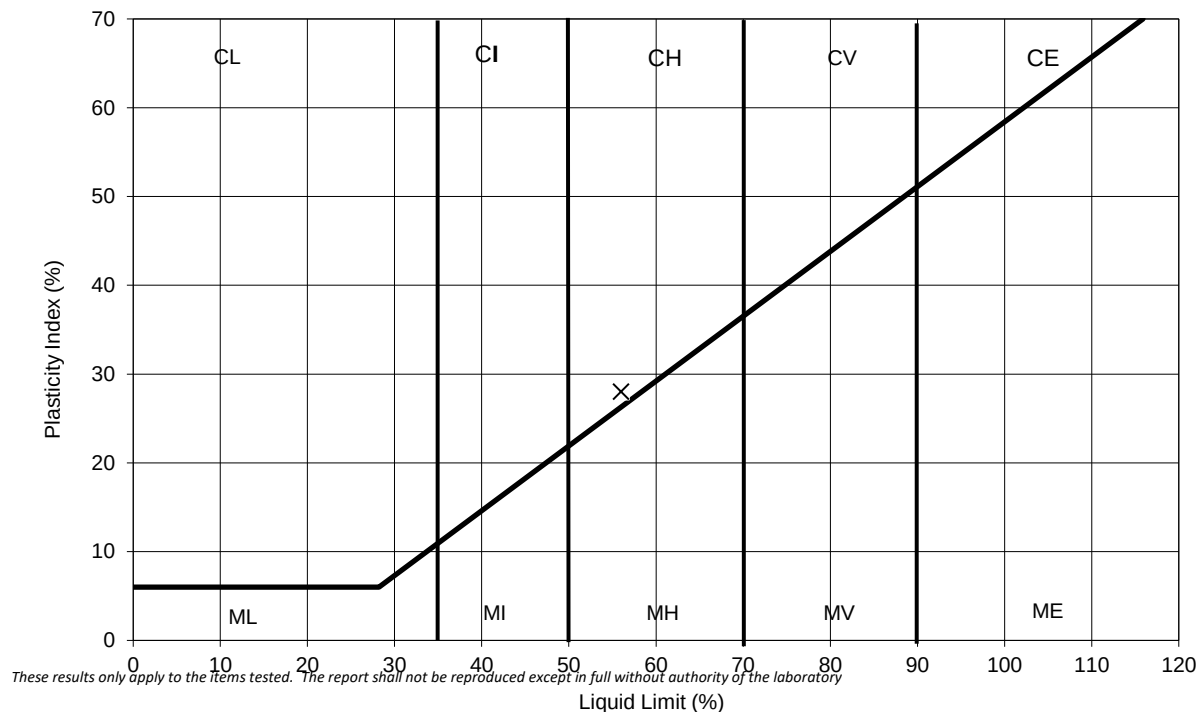
PLASTICITY INDEX

28

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR44

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

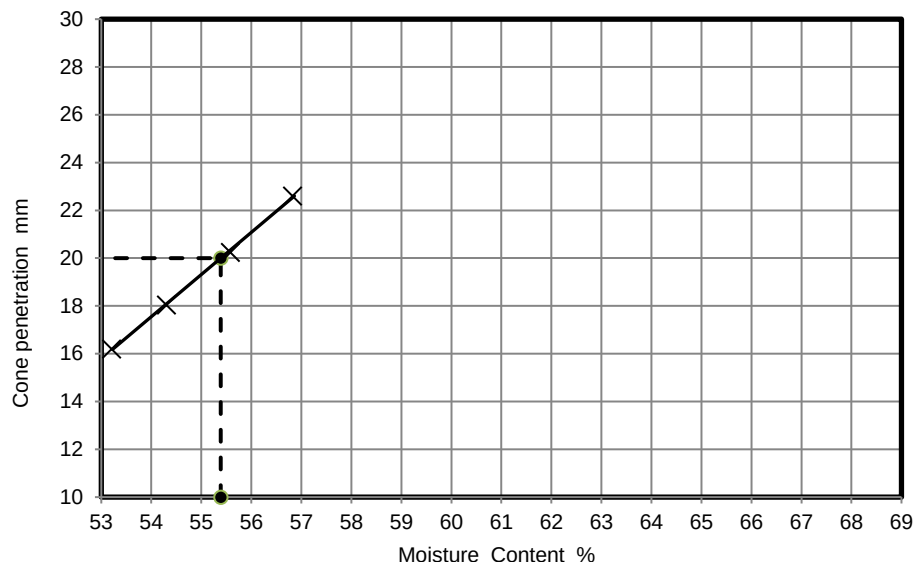
Soil Description Light brown mottled orangish brown slightly sandy silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 12/08/2022



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

55

%

PLASTIC LIMIT

27

%

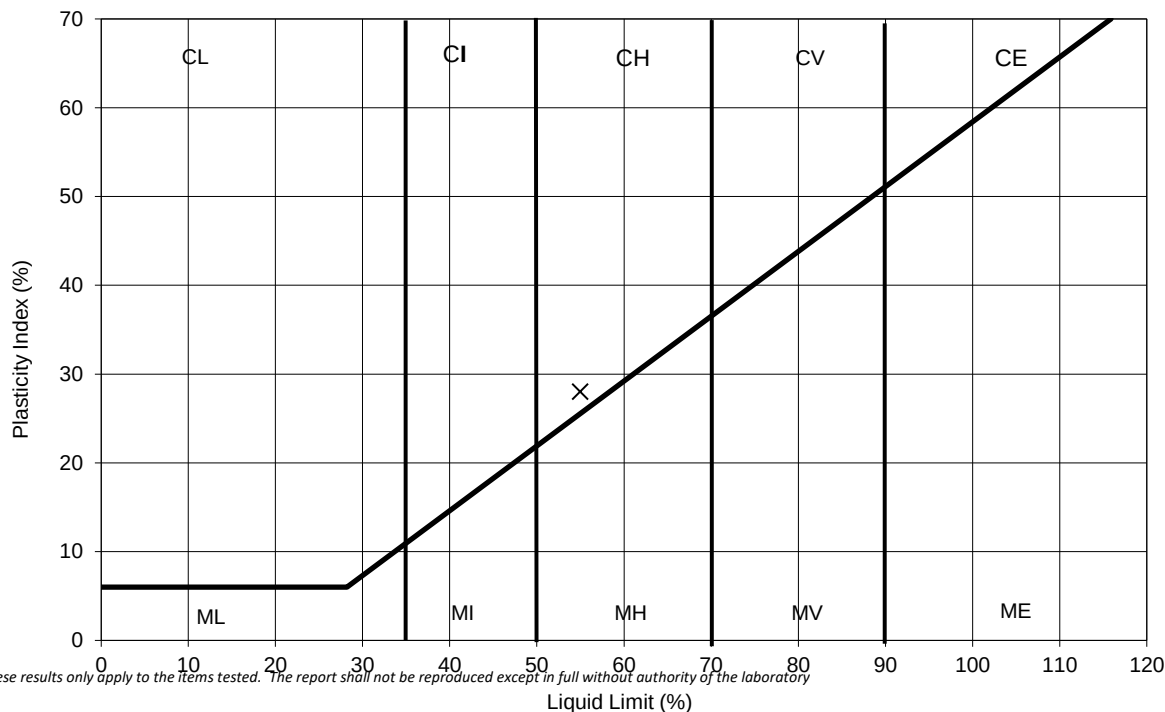
PLASTICITY INDEX

28

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR29

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

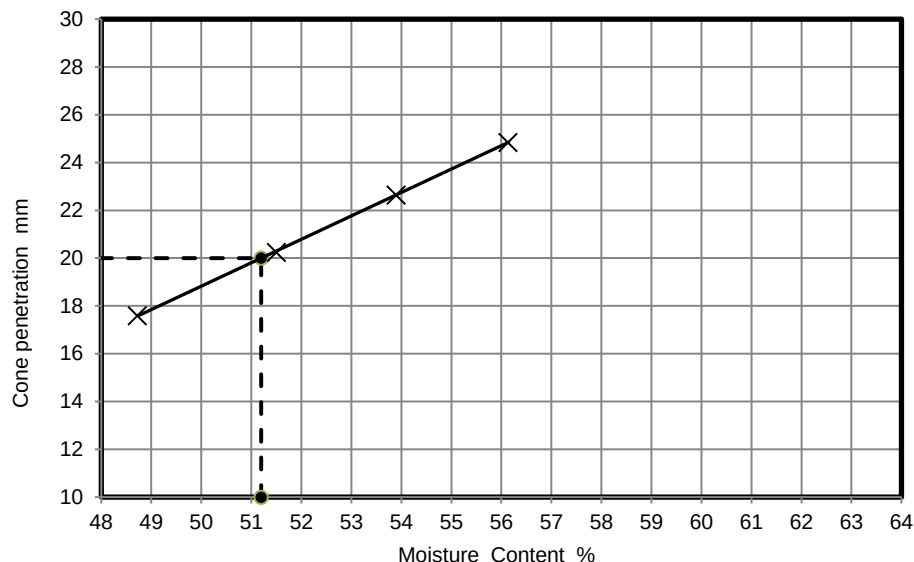
Brown and orangish brown silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 02/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

26

%

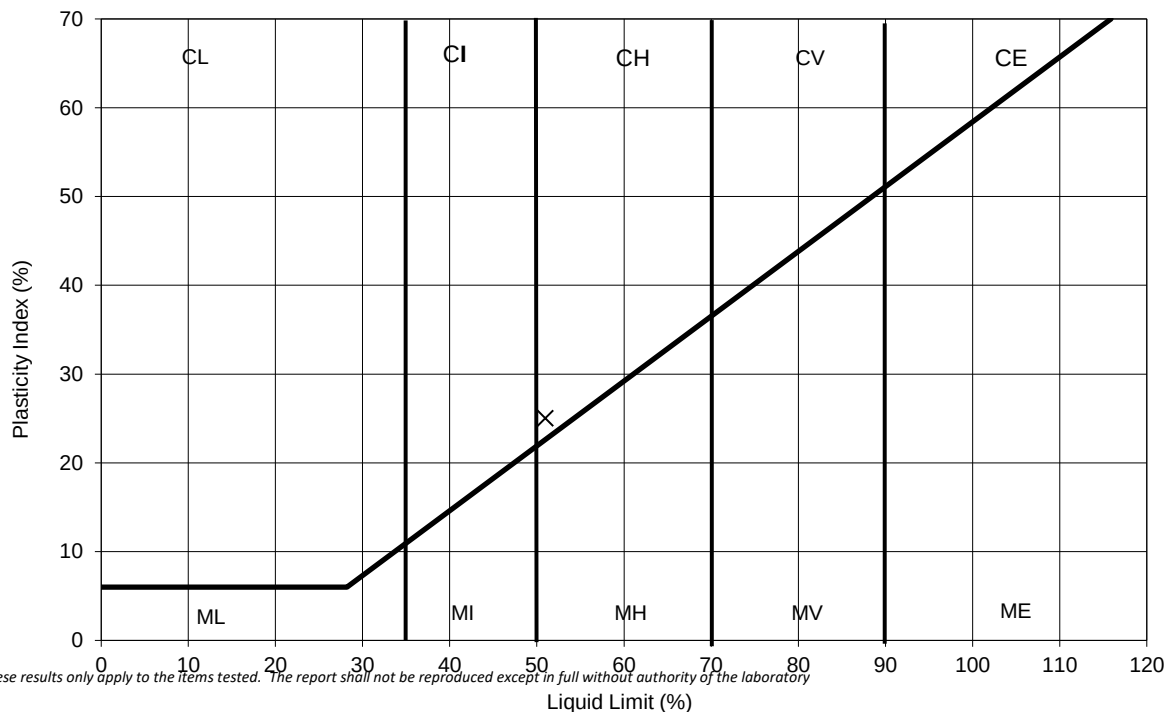
PLASTICITY INDEX

25

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR28

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

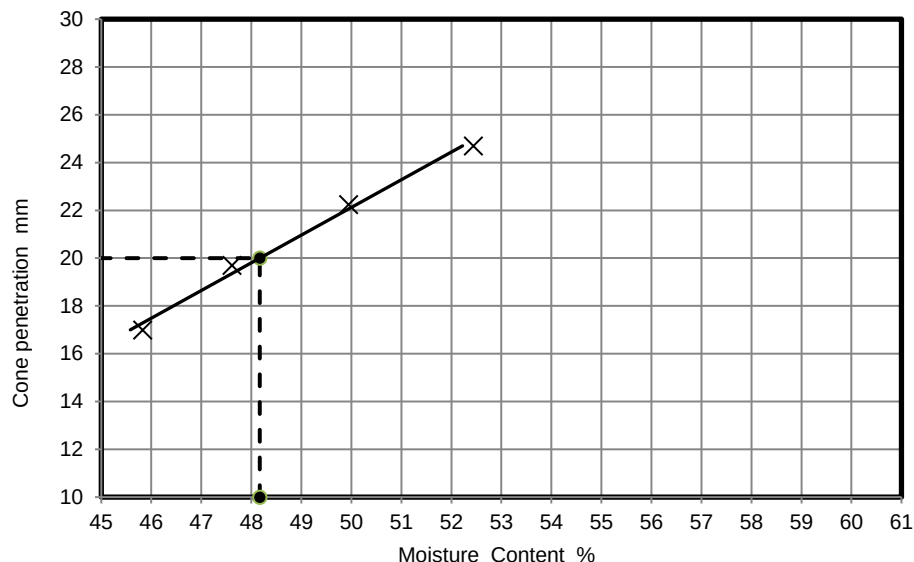
Soil Description Brown and orangish brown mottled silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 02/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

48

%

PLASTIC LIMIT

24

%

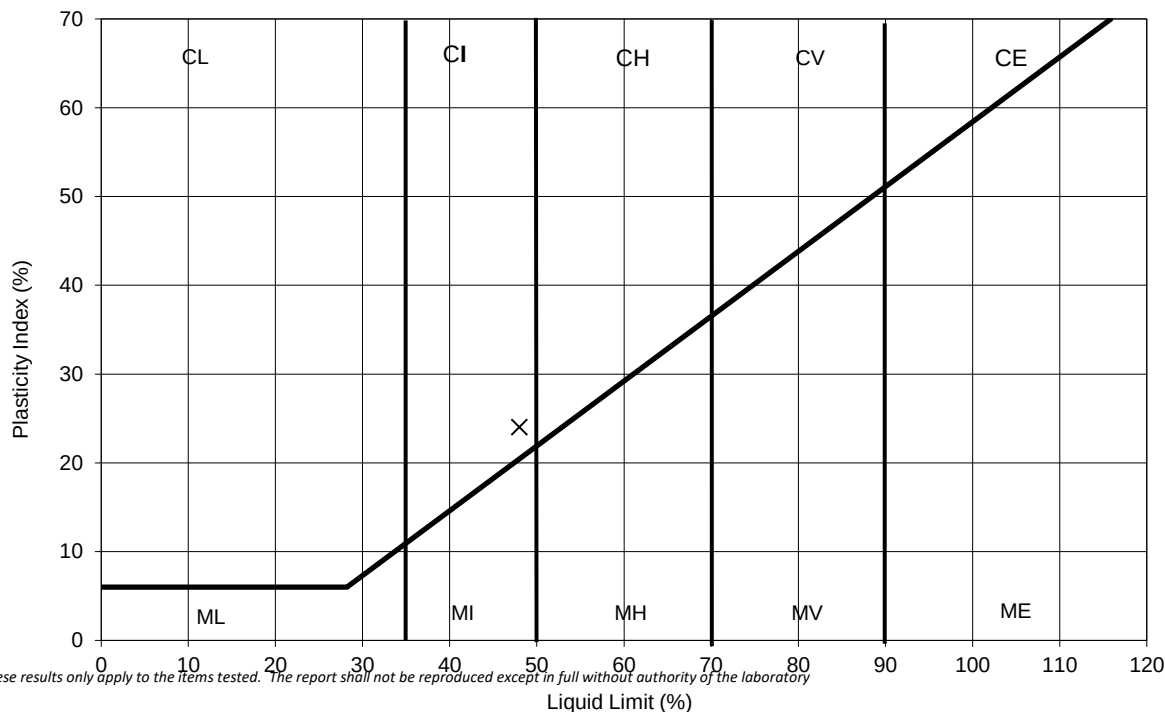
PLASTICITY INDEX

24

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

MSF-5 R2

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

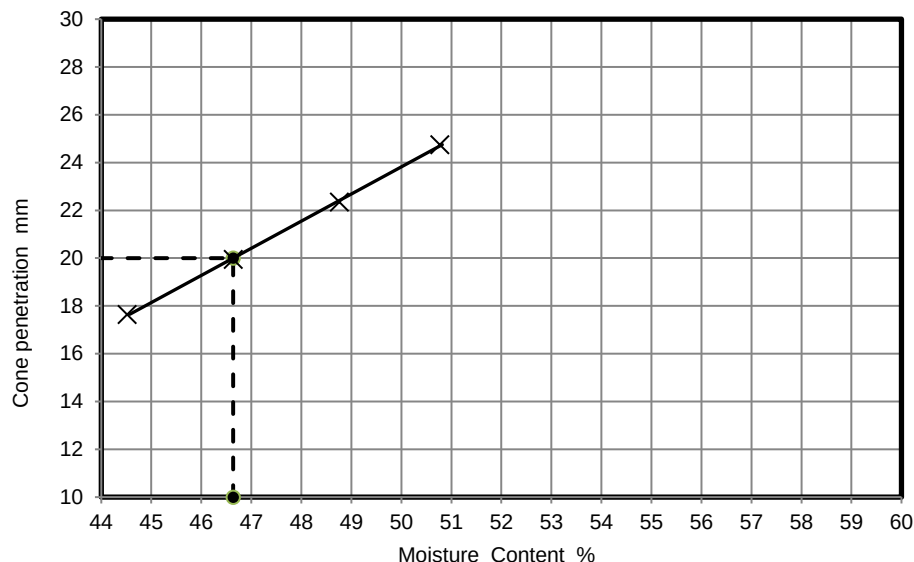




LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR27
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	02/08/2022

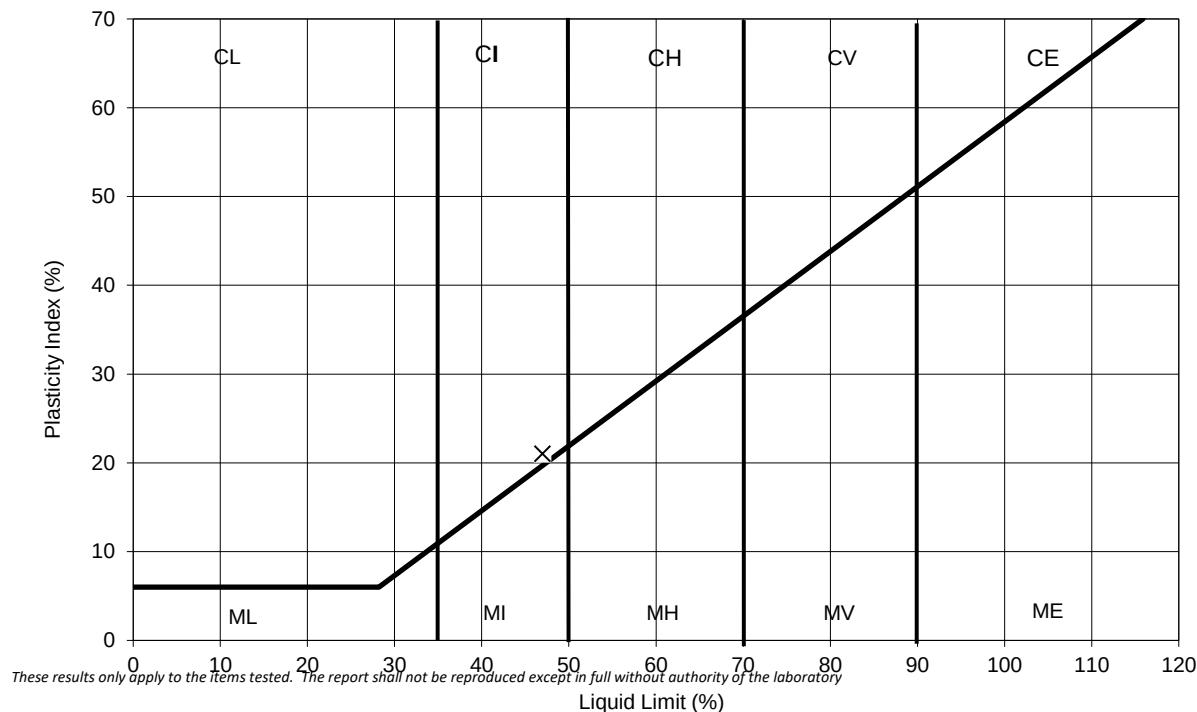
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Brown silty CLAY		



NATURAL MOISTURE CONTENT	19	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	47	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	21	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

MSF-5 R2



2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR26

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

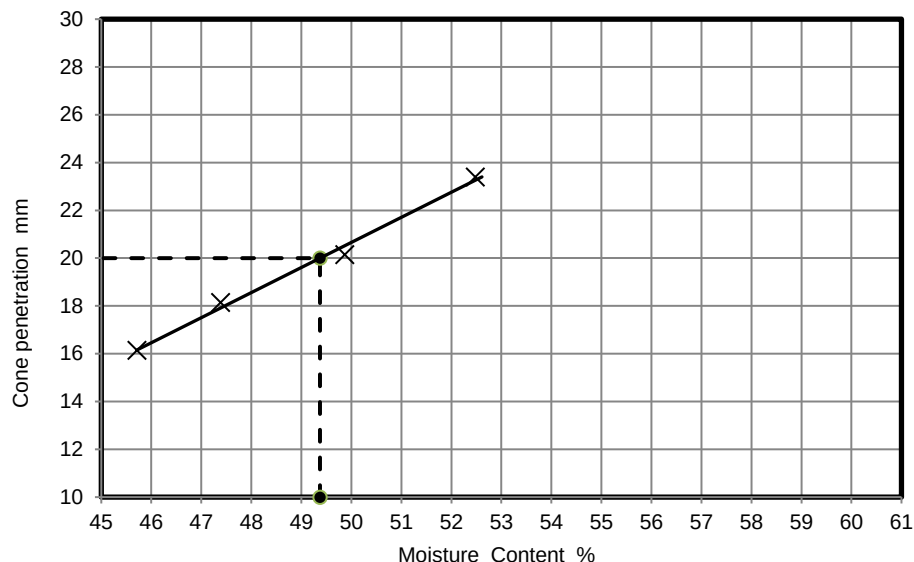
Soil Description Light brown and bluish grey mottled silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 02/08/2022



NATURAL MOISTURE CONTENT

19 %

% PASSING 425µm SIEVE

100 %

LIQUID LIMIT

49 %

PLASTIC LIMIT

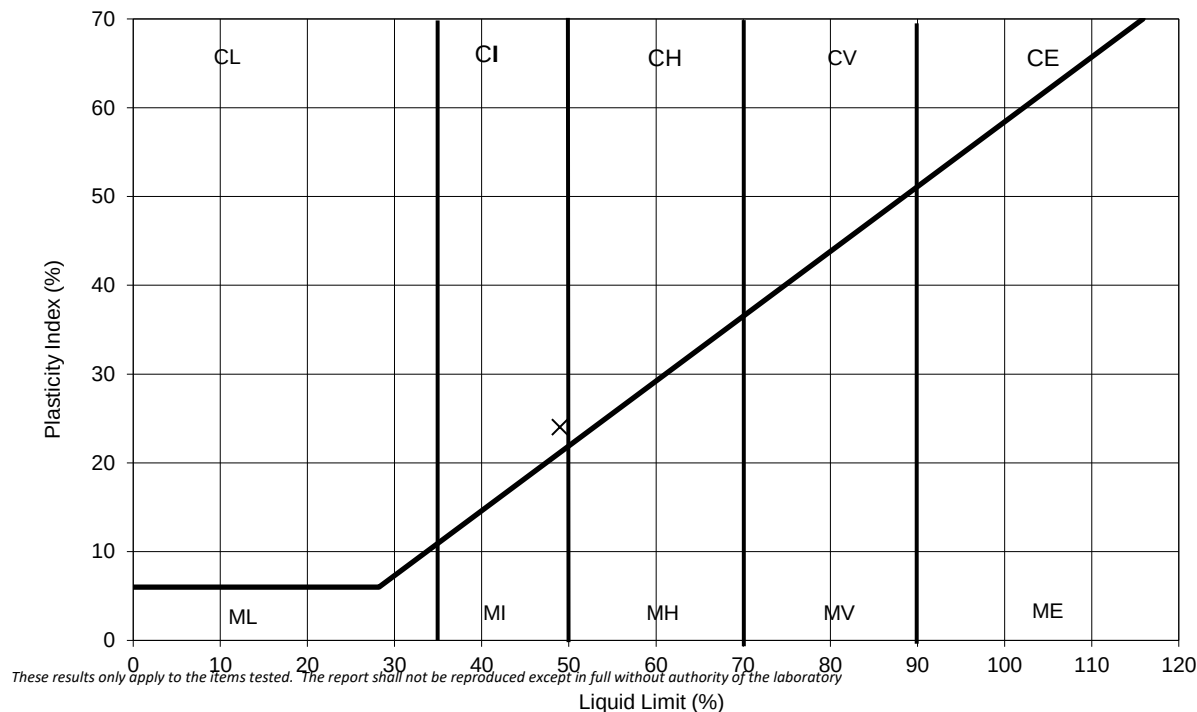
25 %

PLASTICITY INDEX

24 %

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR25

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Soil Description

Brown, bluish grey and orangish brown mottled silty CLAY

Samples received

17/05/2022

Schedules received

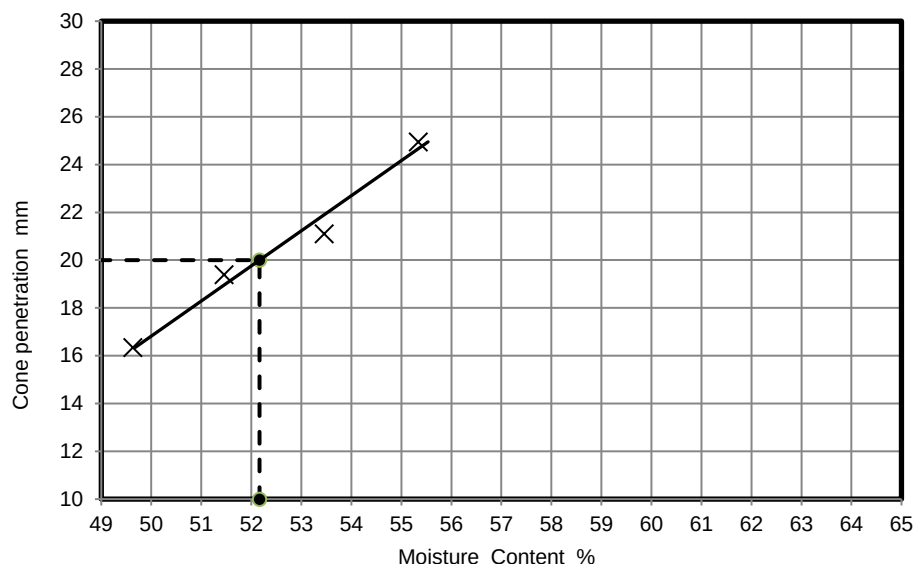
16/05/2022

Project Started

17/05/2022

Date Tested

03/08/2022



NATURAL MOISTURE CONTENT

29

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

52

%

PLASTIC LIMIT

26

%

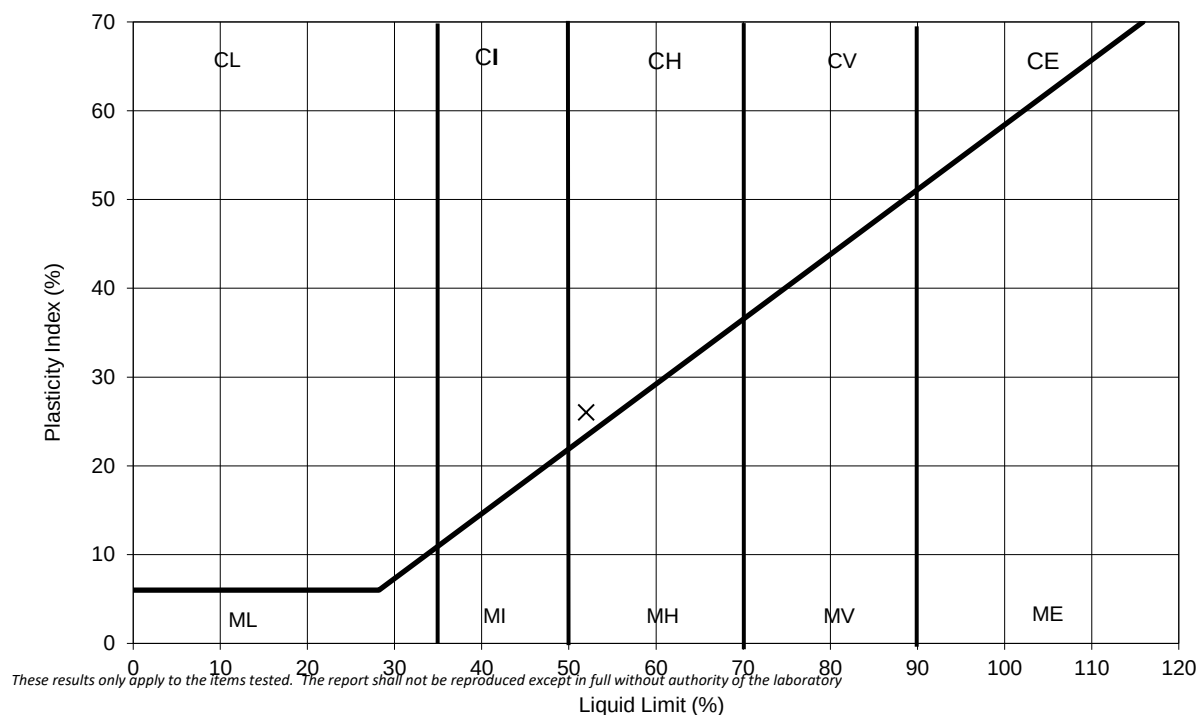
PLASTICITY INDEX

26

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR24

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

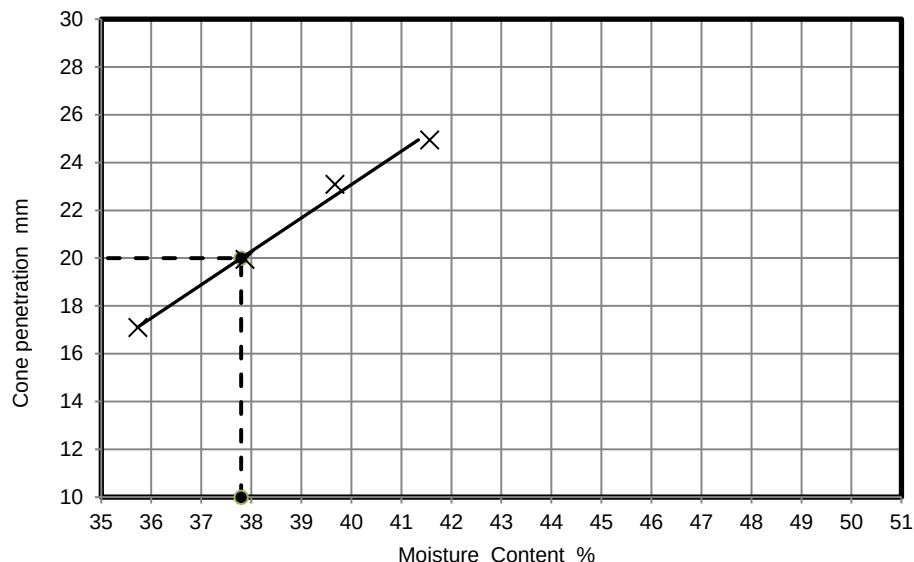
Soil Description Light brown, bluish grey and orangish brown mottled silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 03/08/2022



NATURAL MOISTURE CONTENT

21

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

21

%

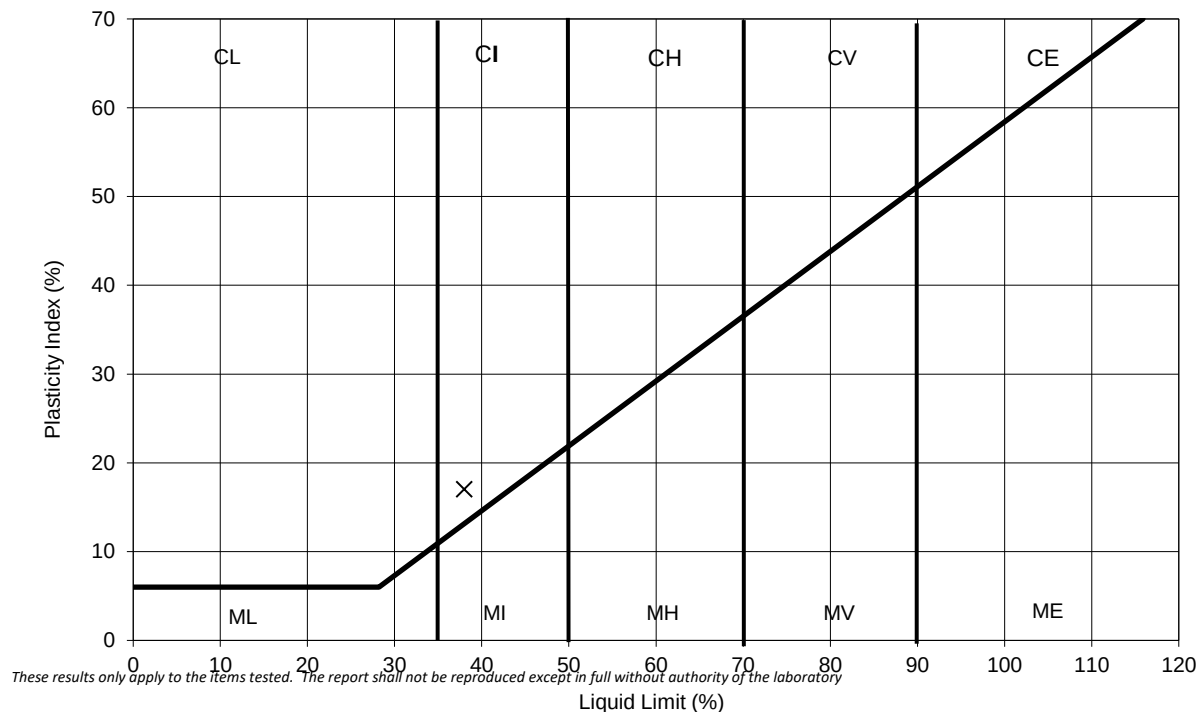
PLASTICITY INDEX

17

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

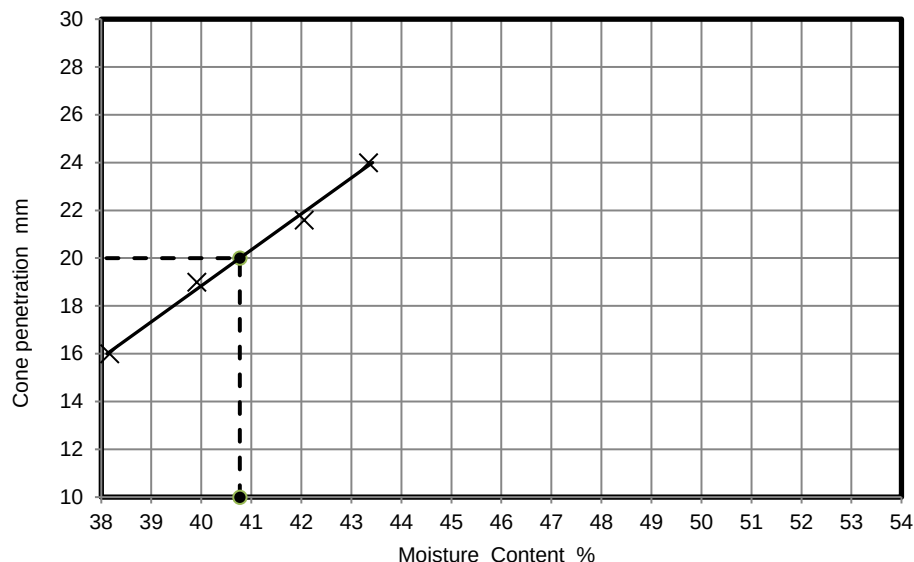
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR23
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	02/08/2022

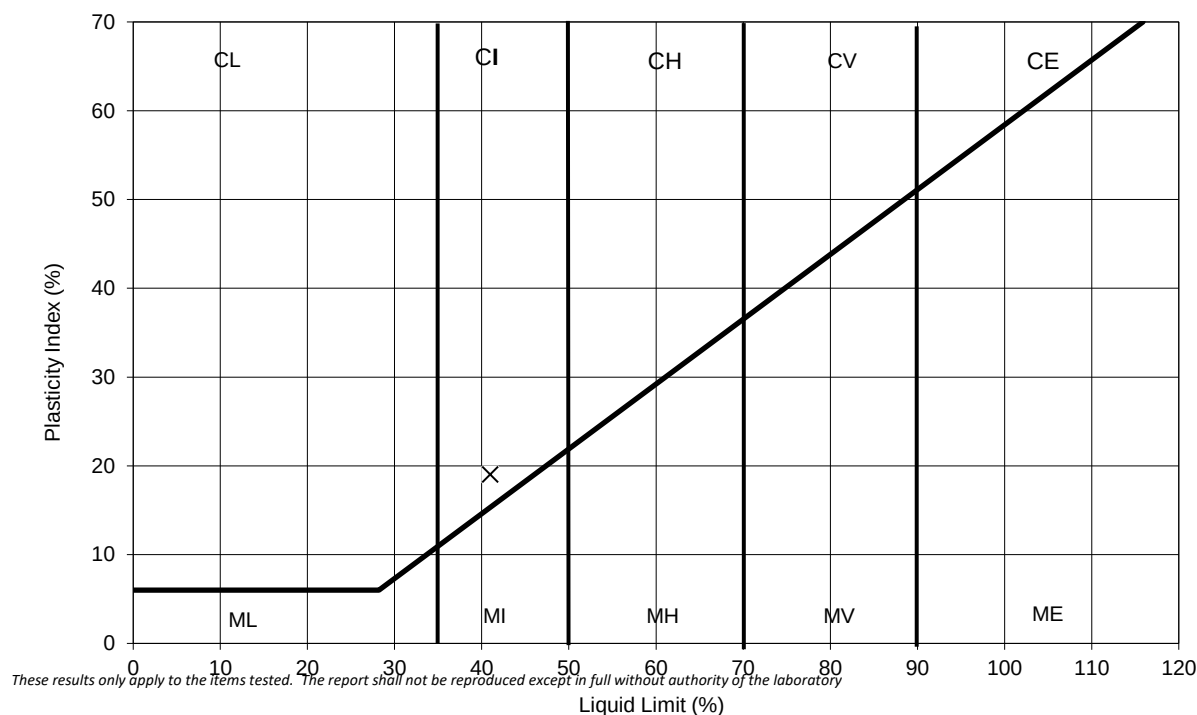
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light brown, bluish grey and orangish brown mottled silty CLAY		



NATURAL MOISTURE CONTENT	21	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	41	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	19	%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR01

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Soil Description

Brown and occasional ironstained slightly gravelly sandy silty CLAY
(gravel is fm)

Samples received

17/05/2022

Schedules received

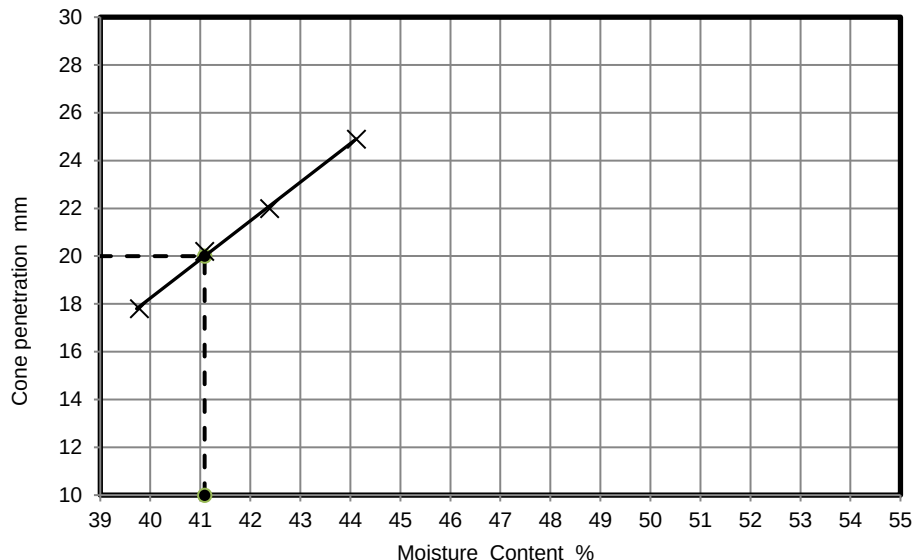
16/05/2022

Project Started

17/05/2022

Date Tested

25/07/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

41

%

PLASTIC LIMIT

21

%

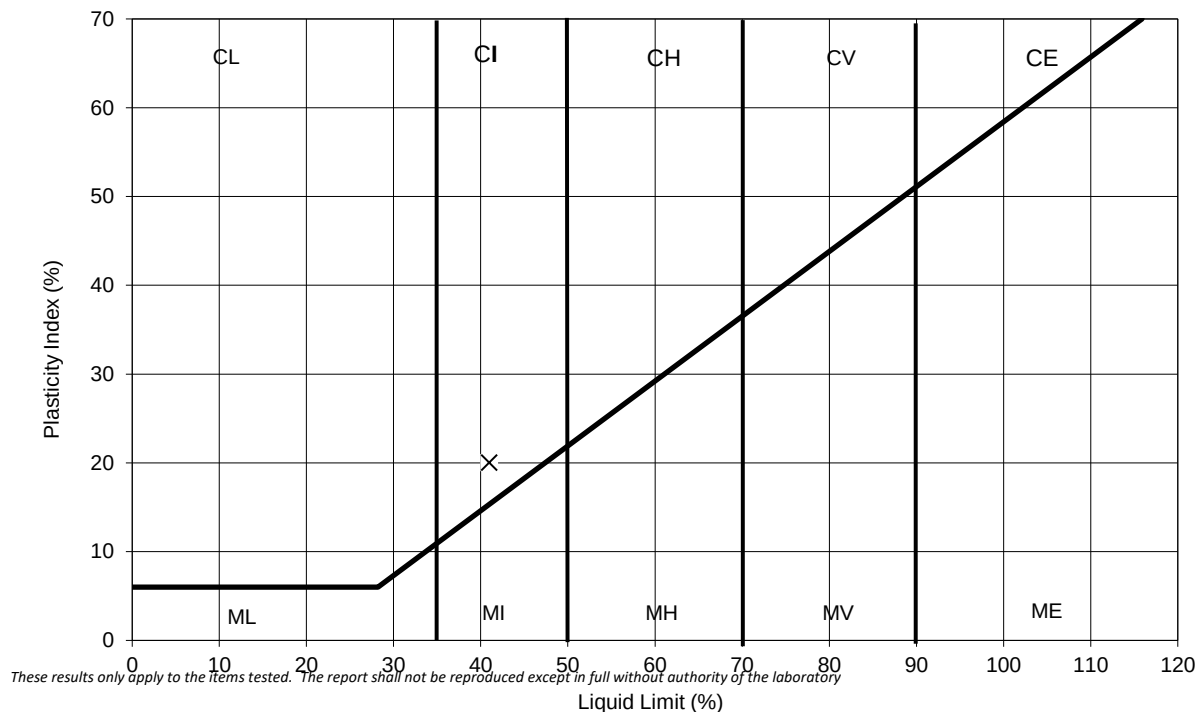
PLASTICITY INDEX

20

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR02

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Samples received

17/05/2022

Schedules received

16/05/2022

Project Started

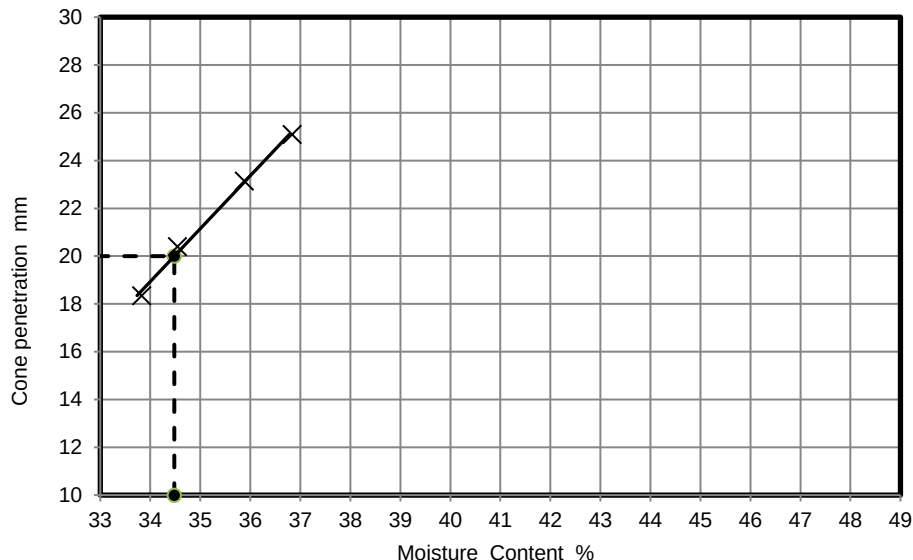
17/05/2022

Date Tested

25/07/2022

Soil Description

Brown, light grey and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

85

%

LIQUID LIMIT

34

%

PLASTIC LIMIT

19

%

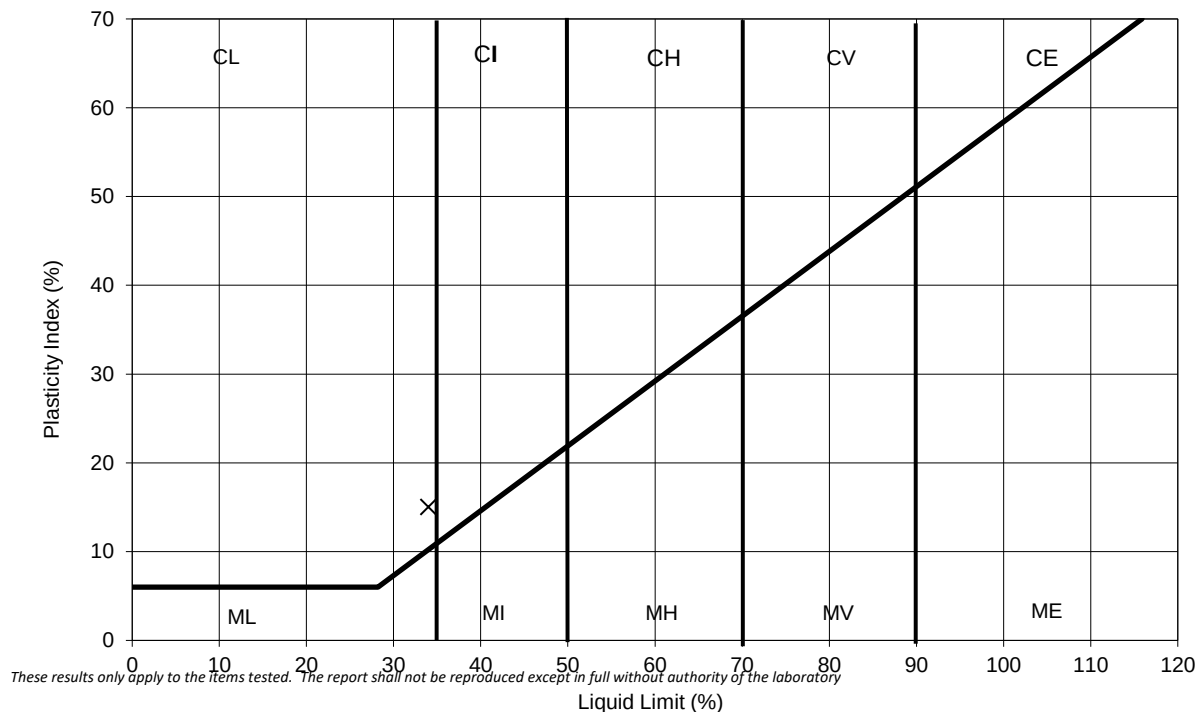
PLASTICITY INDEX

15

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

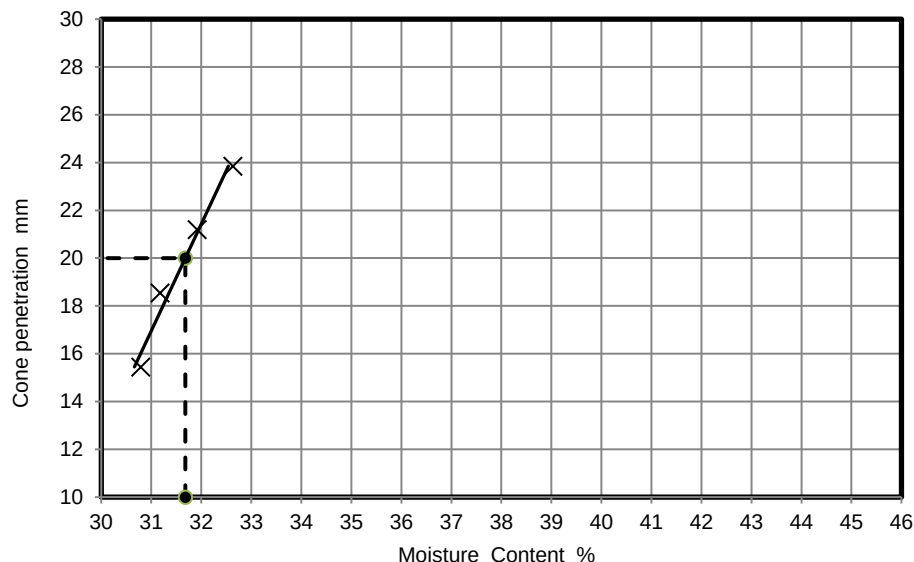
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR03
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	25/07/2022

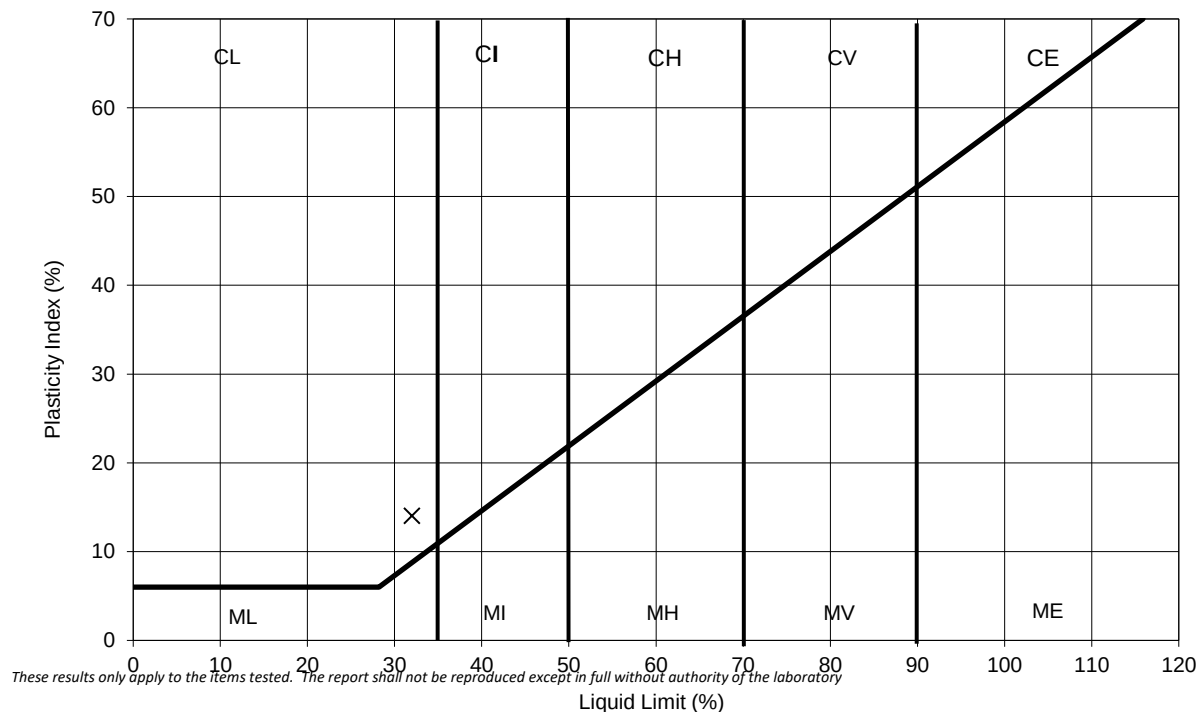
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Brown slightly gravelly sandy silty CLAY (gravel is fmc mudstone fragments)		



NATURAL MOISTURE CONTENT	12	%
% PASSING 425µm SIEVE	70	%
LIQUID LIMIT	32	%
PLASTIC LIMIT	18	%
PLASTICITY INDEX	14	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022



2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR04

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

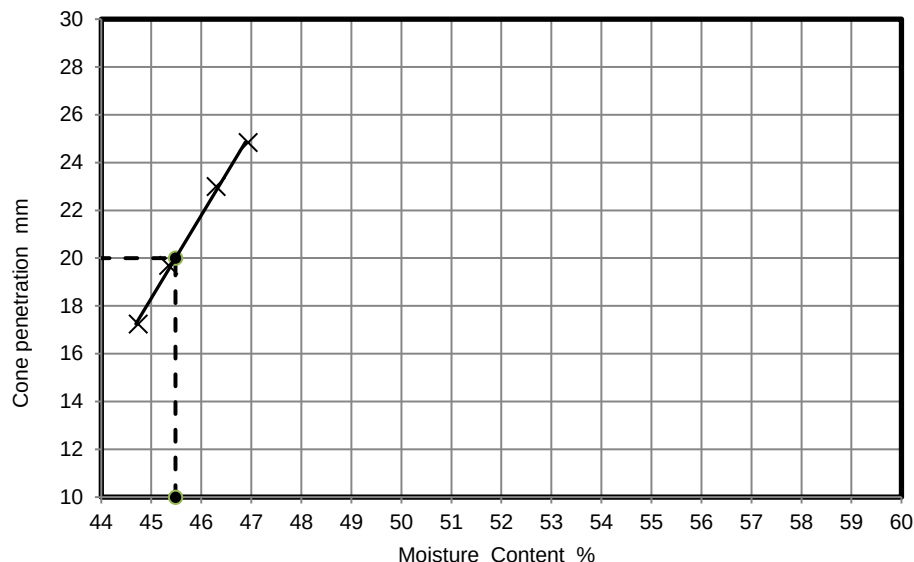
Soil Description Brown sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

18 %

% PASSING 425µm SIEVE

99 %

LIQUID LIMIT

45 %

PLASTIC LIMIT

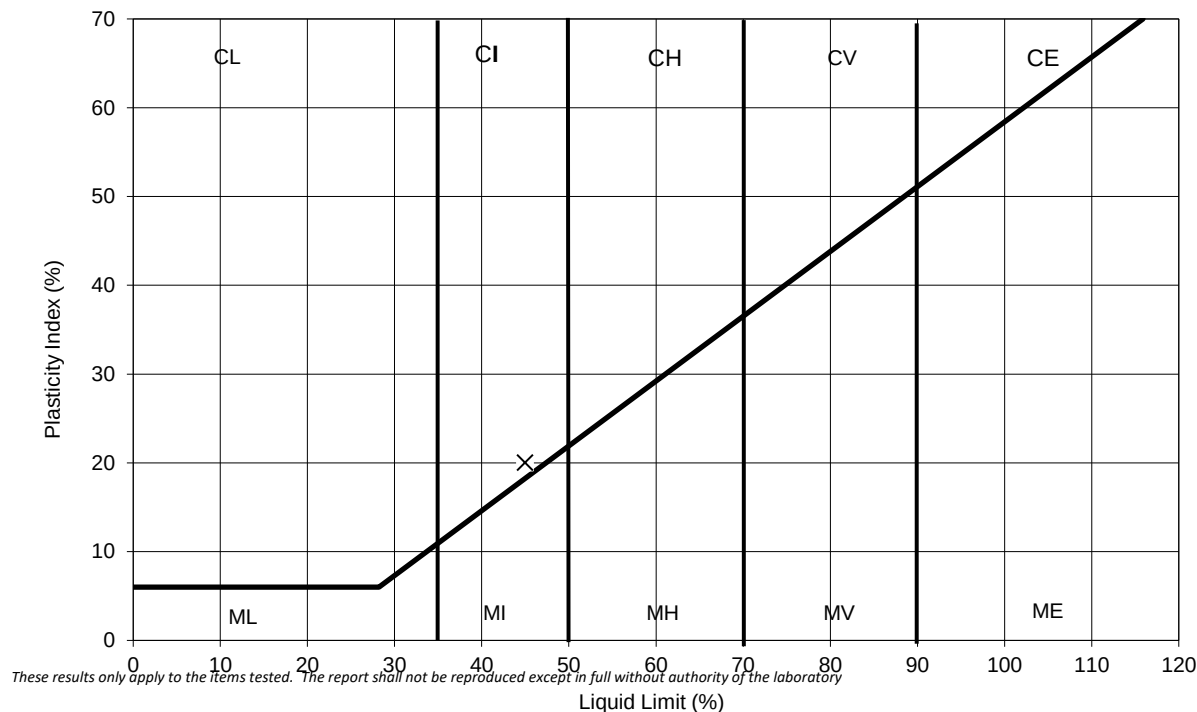
25 %

PLASTICITY INDEX

20 %

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR05

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

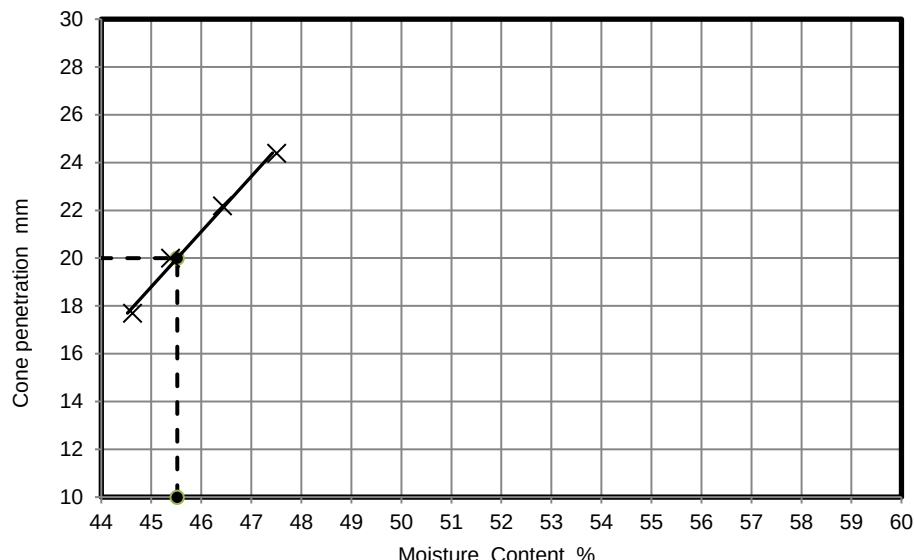
Brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

16

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

46

%

PLASTIC LIMIT

23

%

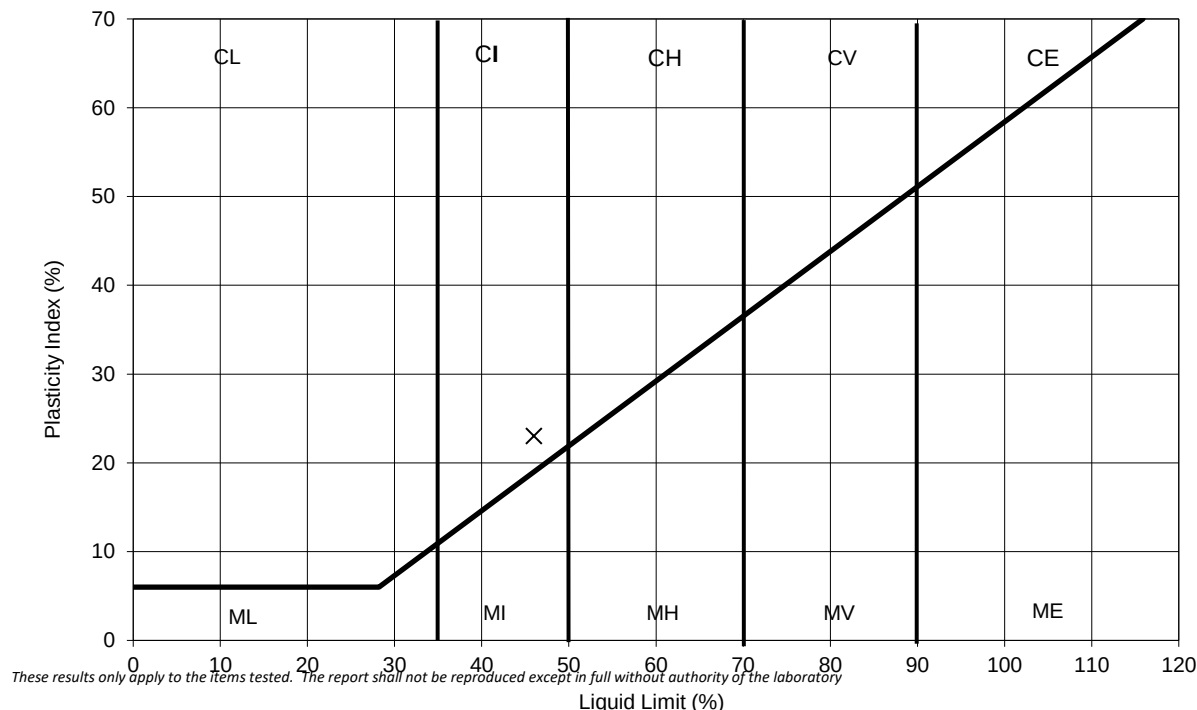
PLASTICITY INDEX

23

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR06

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

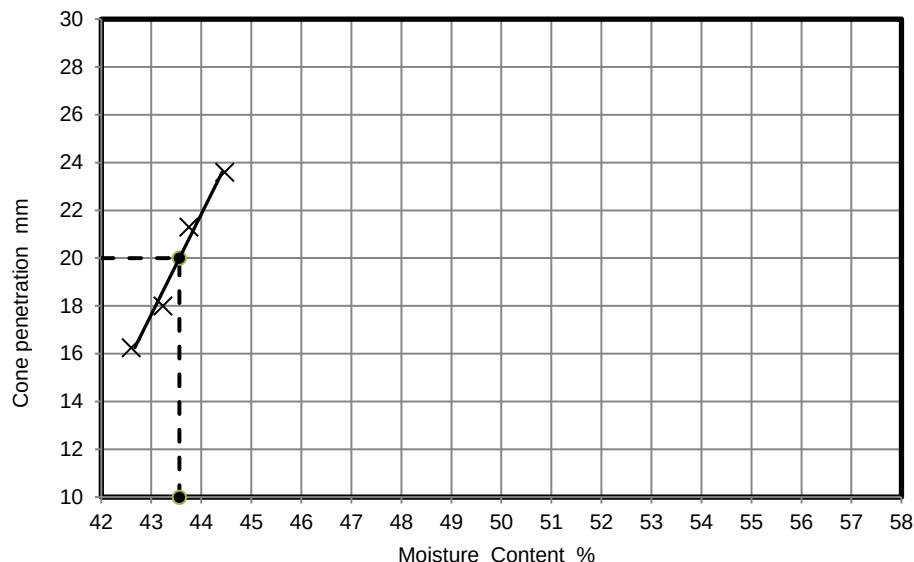
Brown slightly gravelly sandy silty CLAY (gravel is fmc mudstone fragments)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

90

%

LIQUID LIMIT

44

%

PLASTIC LIMIT

24

%

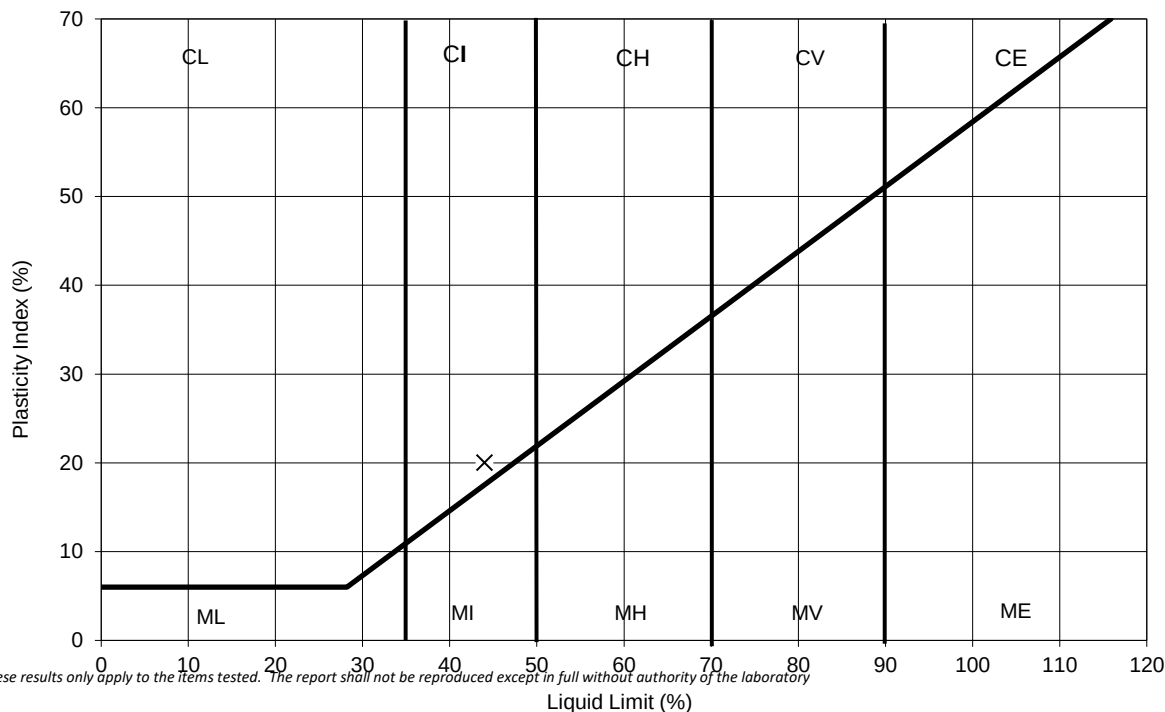
PLASTICITY INDEX

20

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR07

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

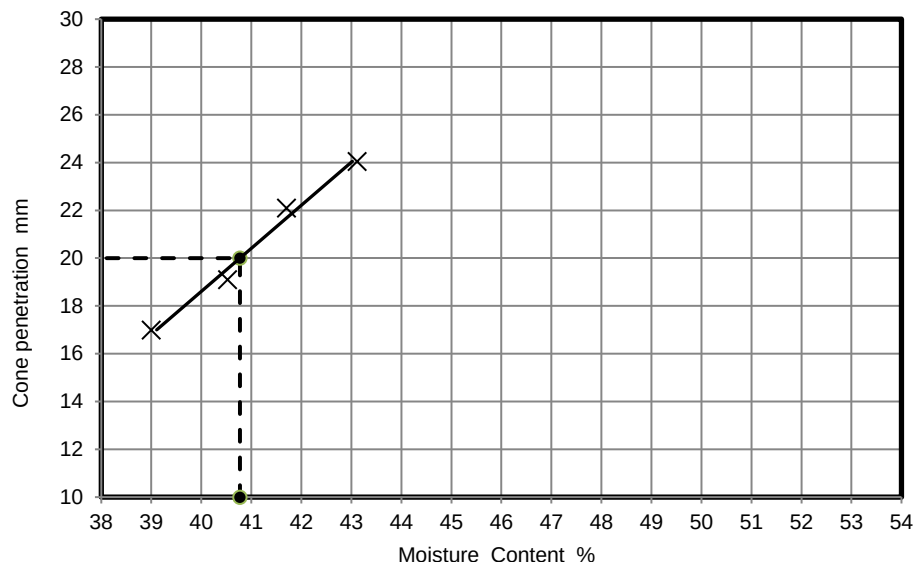
Soil Description Light grey mottled orangish brown silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

19 %

% PASSING 425µm SIEVE

99 %

LIQUID LIMIT

41 %

PLASTIC LIMIT

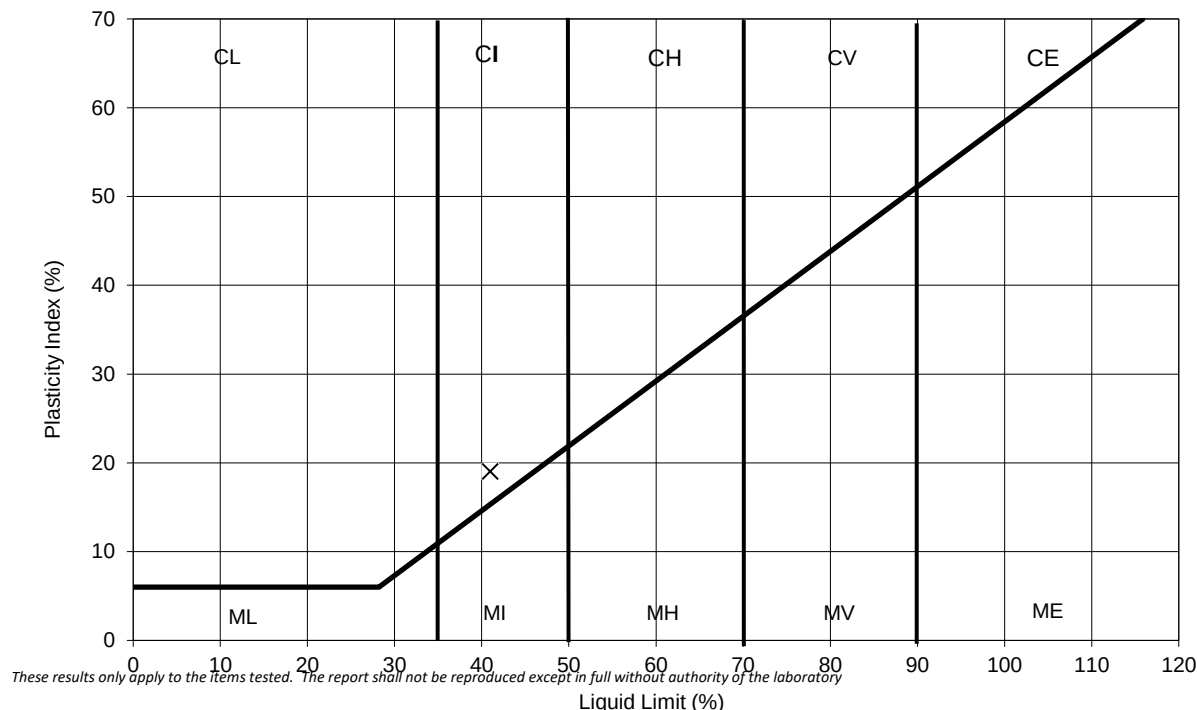
22 %

PLASTICITY INDEX

19 %

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR08

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

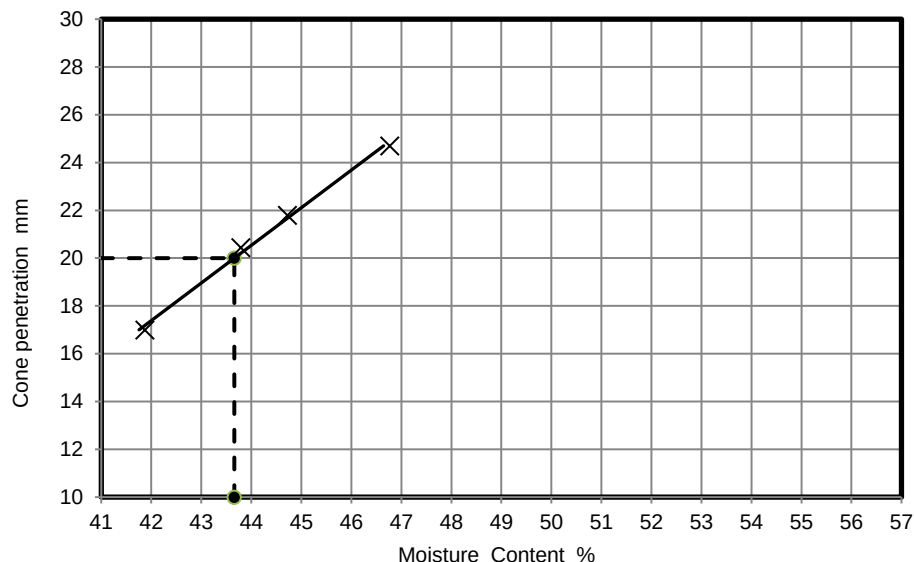
Soil Description Light grey mottled orangish brow silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

44

%

PLASTIC LIMIT

24

%

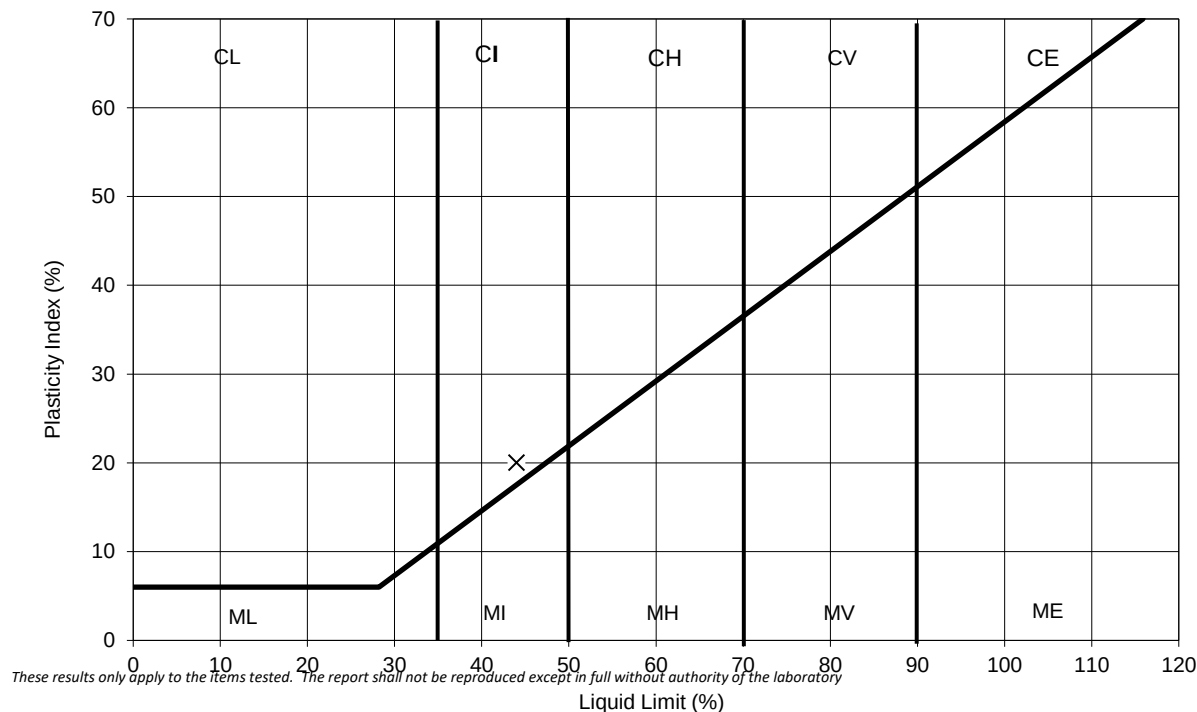
PLASTICITY INDEX

20

%

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR09

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

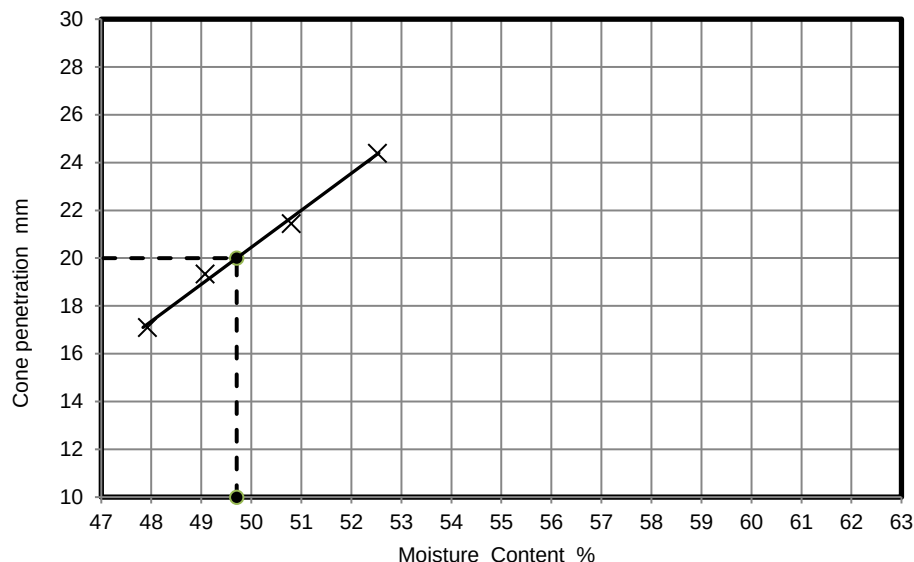
Soil Description Light grey and orangish brown silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

22

%

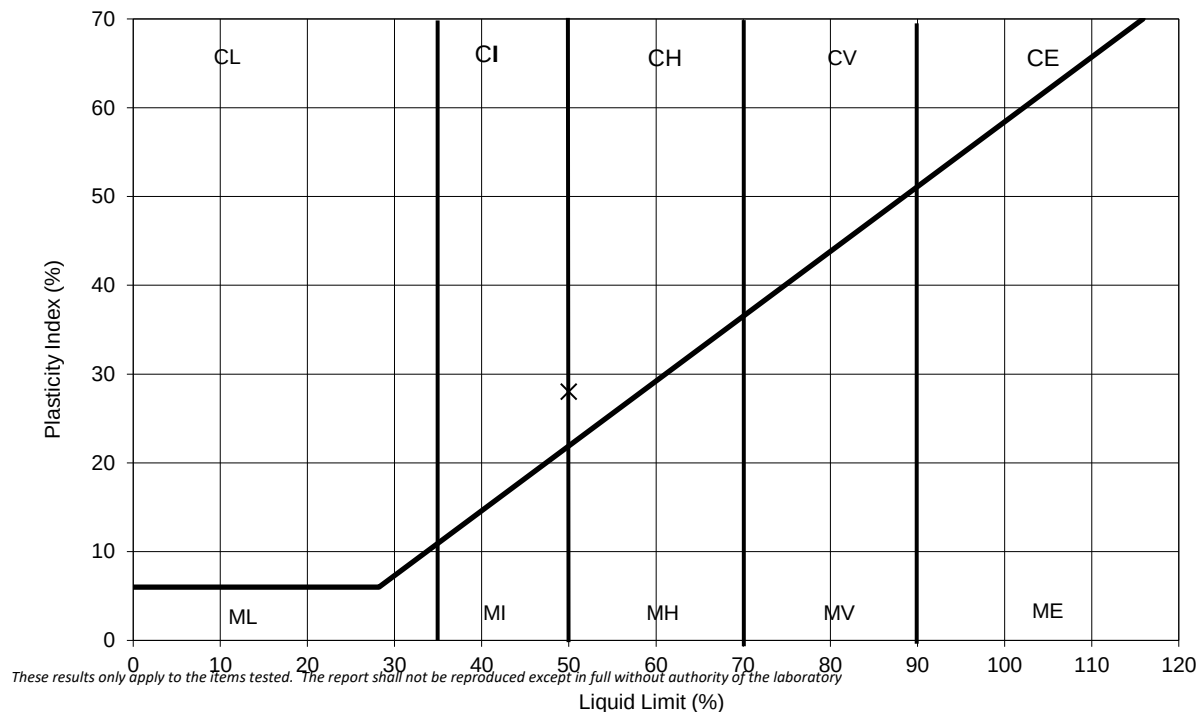
PLASTICITY INDEX

28

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR10

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

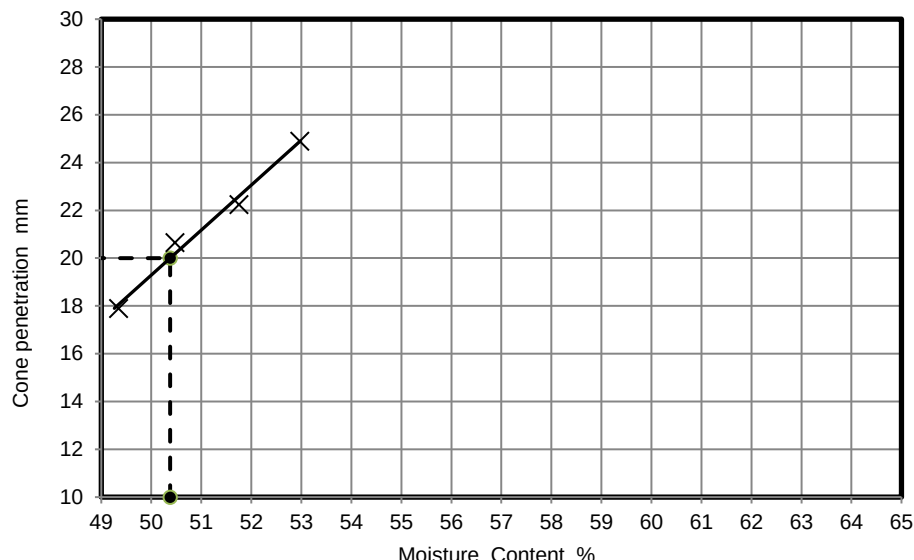
Light greyish brown and orangish brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

23

%

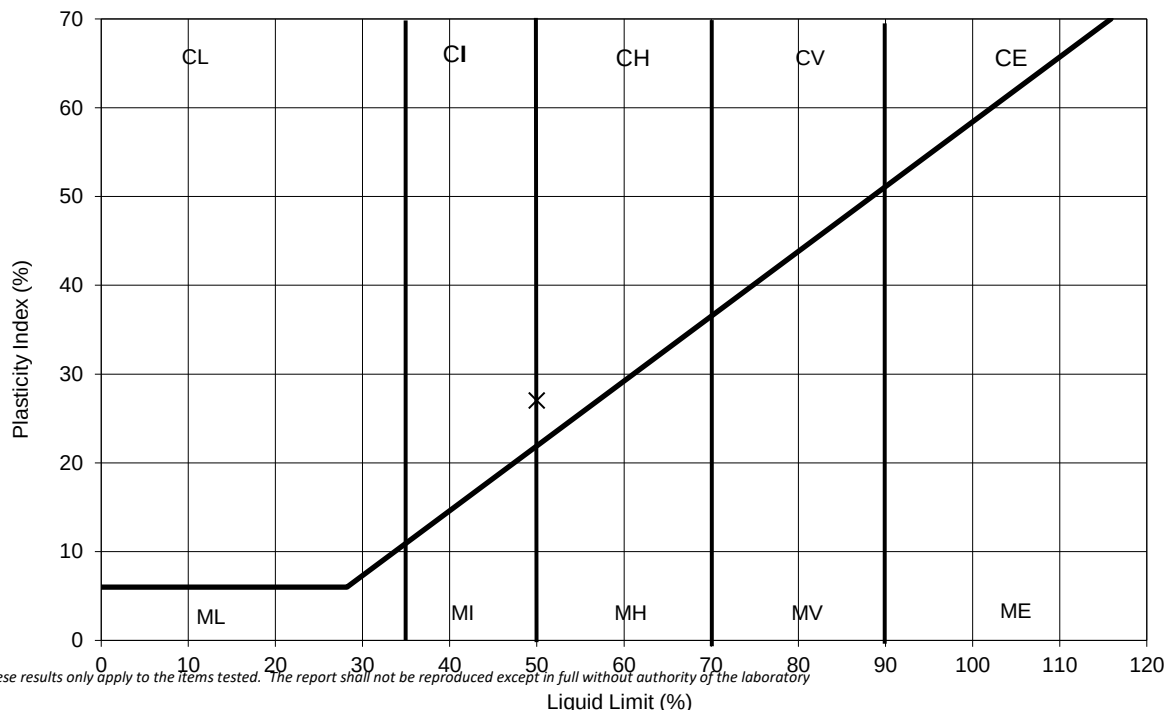
PLASTICITY INDEX

27

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR11

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

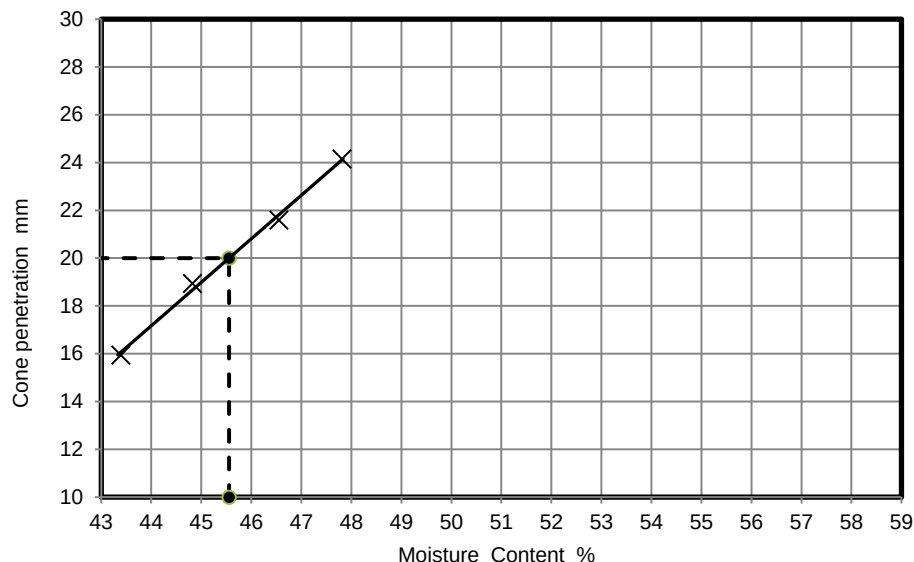
Soil Description Light grey mottled orangish brown silty CLAY

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

20

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

46

%

PLASTIC LIMIT

22

%

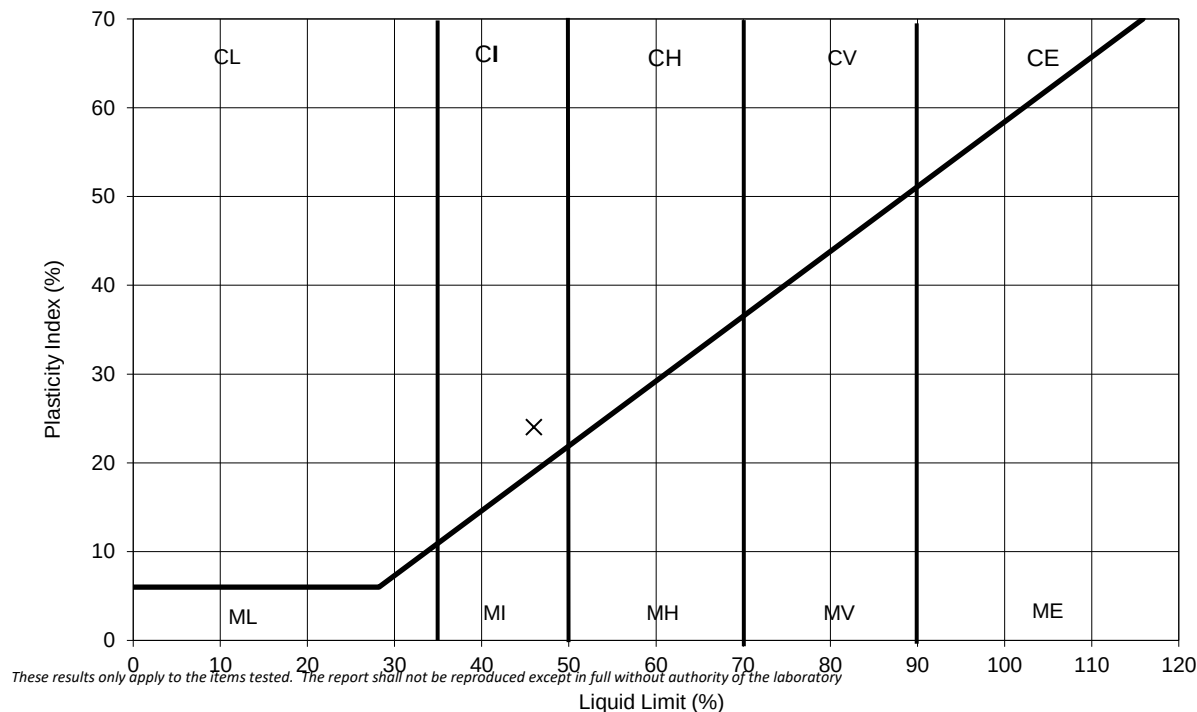
PLASTICITY INDEX

24

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR12

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

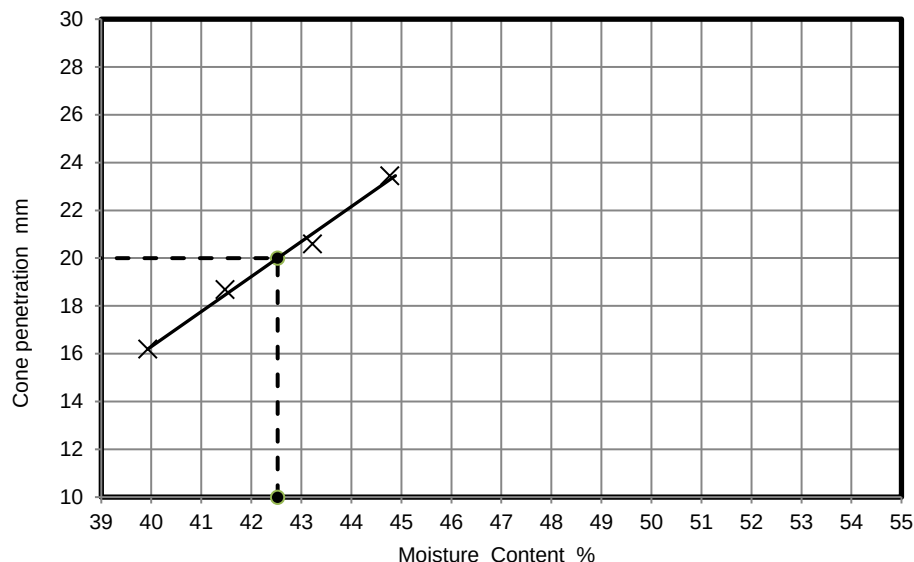
Soil Description Light grey mottled orangish brown silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

19

%

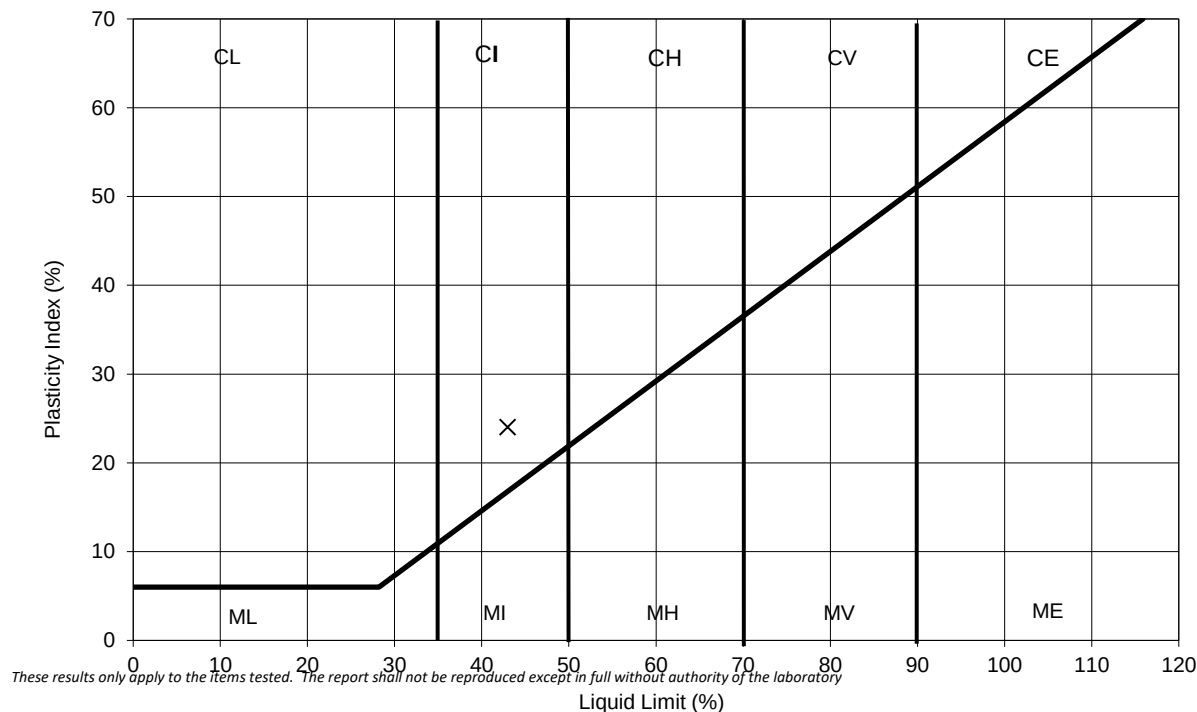
PLASTICITY INDEX

24

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR13

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Samples received

17/05/2022

Schedules received

16/05/2022

Project Started

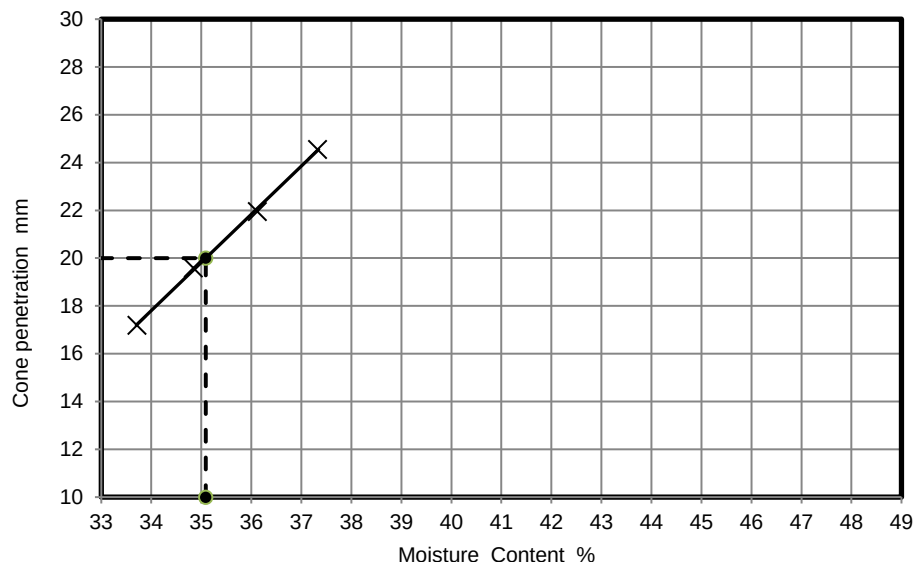
17/05/2022

Date Tested

25/07/2022

Soil Description

Light brown, light grey and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

94

%

LIQUID LIMIT

35

%

PLASTIC LIMIT

18

%

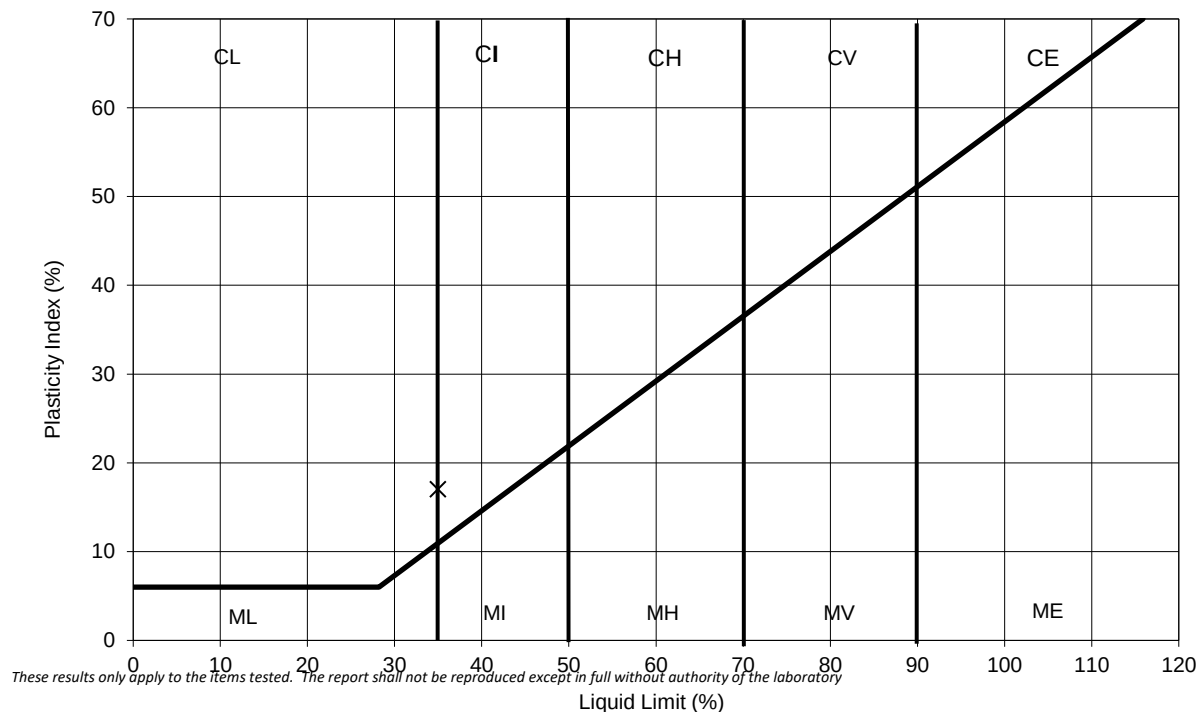
PLASTICITY INDEX

17

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

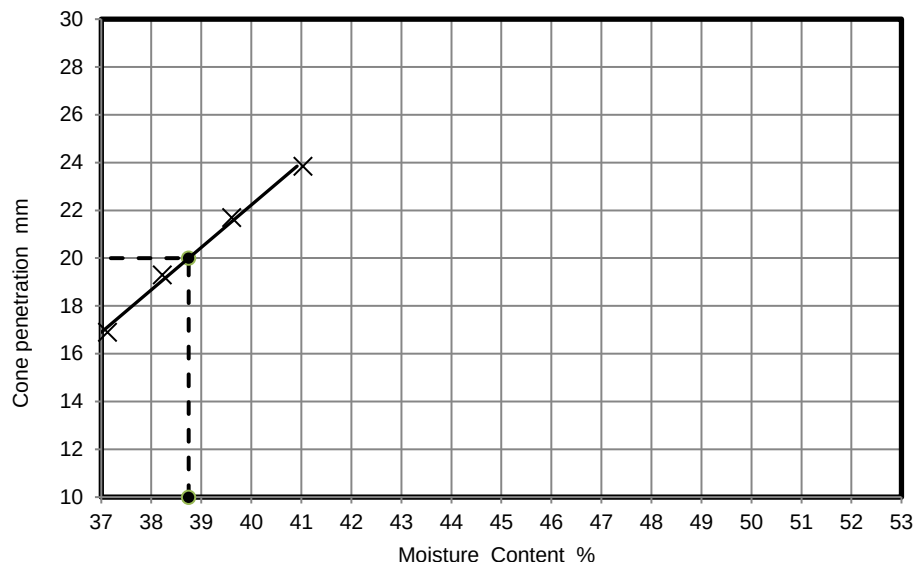
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR14
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	25/07/2022

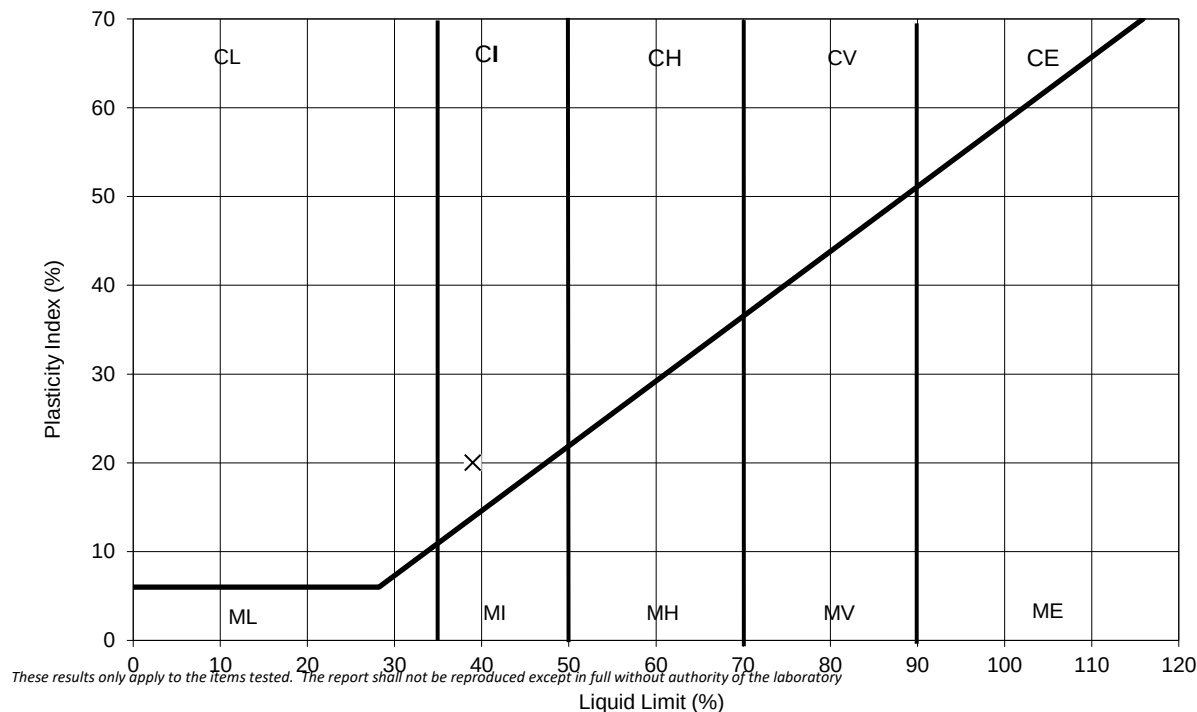
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light greenish grey and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)		



NATURAL MOISTURE CONTENT	17	%
% PASSING 425µm SIEVE	90	%
LIQUID LIMIT	39	%
PLASTIC LIMIT	19	%
PLASTICITY INDEX	20	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

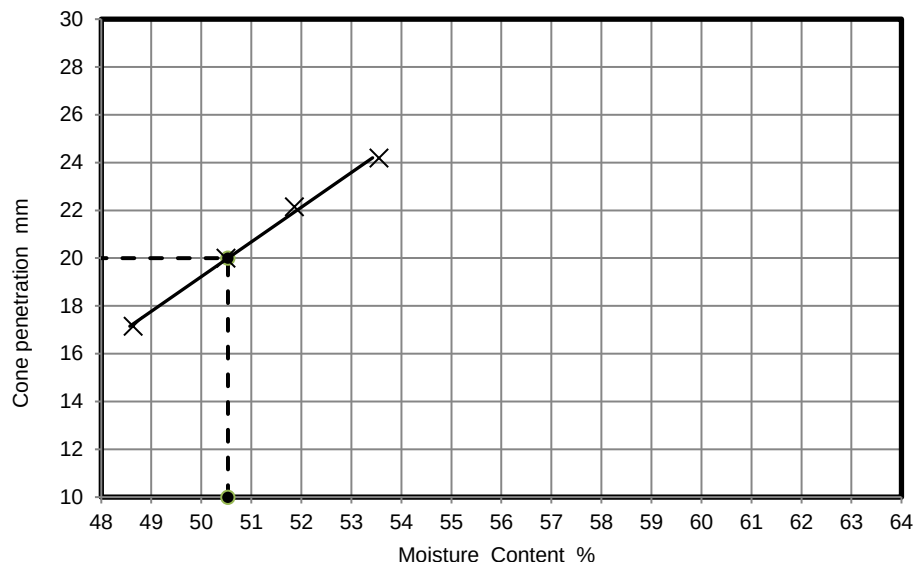
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	31873
Borehole/Pit No.	CBR17
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/2022
Schedules received	16/05/2022
Project Started	17/05/2022
Date Tested	25/07/2022

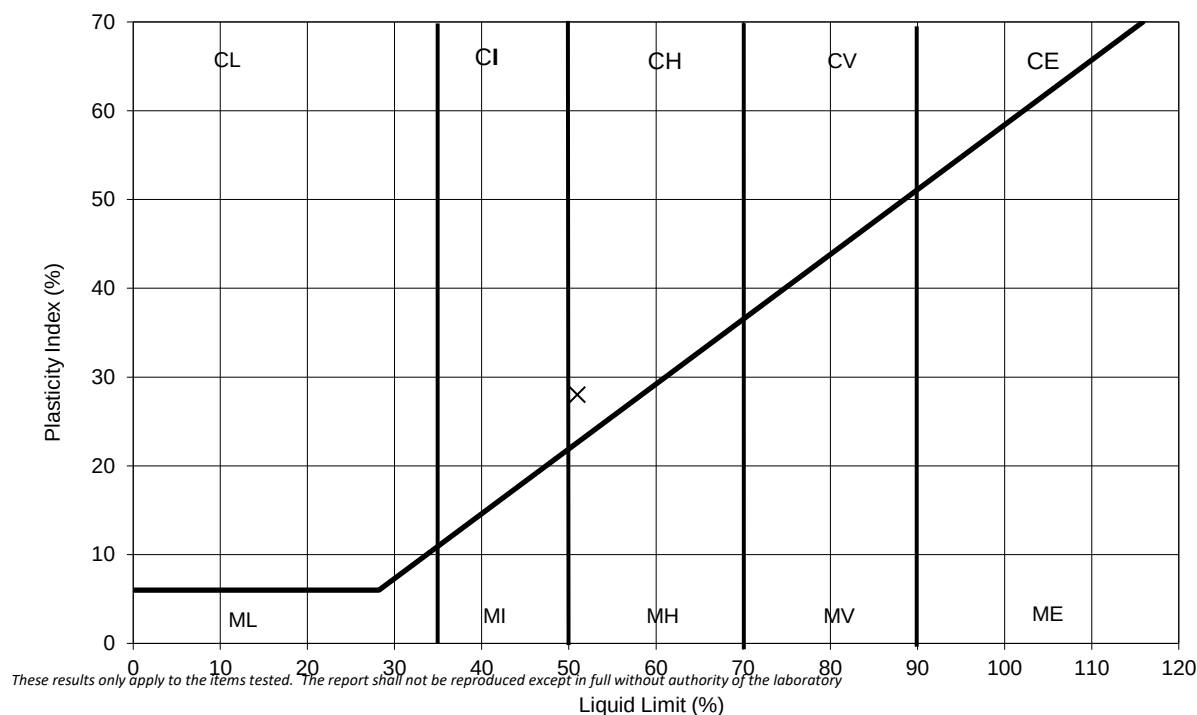
Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light brown, light grey and orangish brown silty CLAY with rare fine gravel		



NATURAL MOISTURE CONTENT	23	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	51	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	28	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

MSF-5 R2



2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

31873

Borehole/Pit No.

CBR18

Site Name

North Horsham II

Sample No.

1

Project No.

GE20724

Client

GESL

Depth Top

0.50

m

Depth Base

-

m

Sample Type

D

Soil Description

Light grey and orangish brown slightly sandy silty CLAY with rare fine gravel

Samples received

17/05/2022

Schedules received

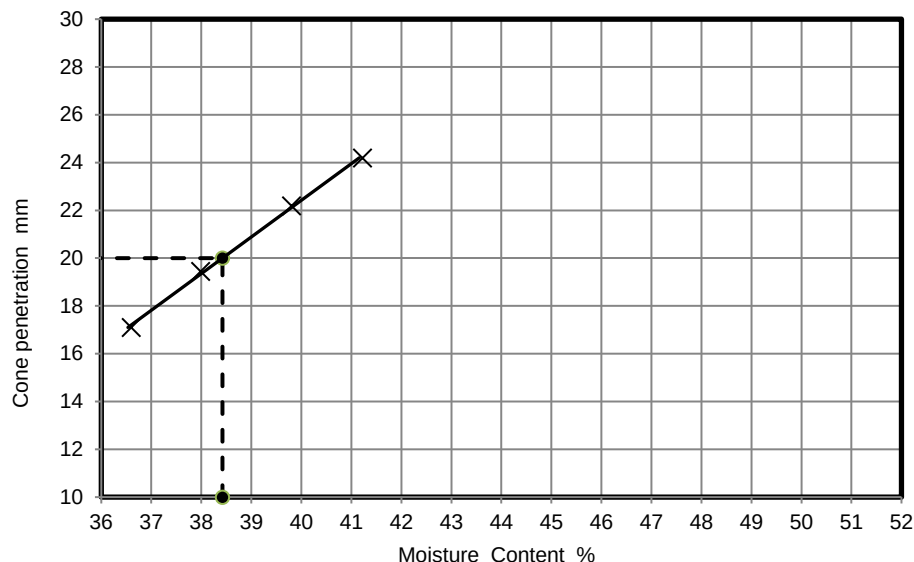
16/05/2022

Project Started

17/05/2022

Date Tested

25/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

98

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

19

%

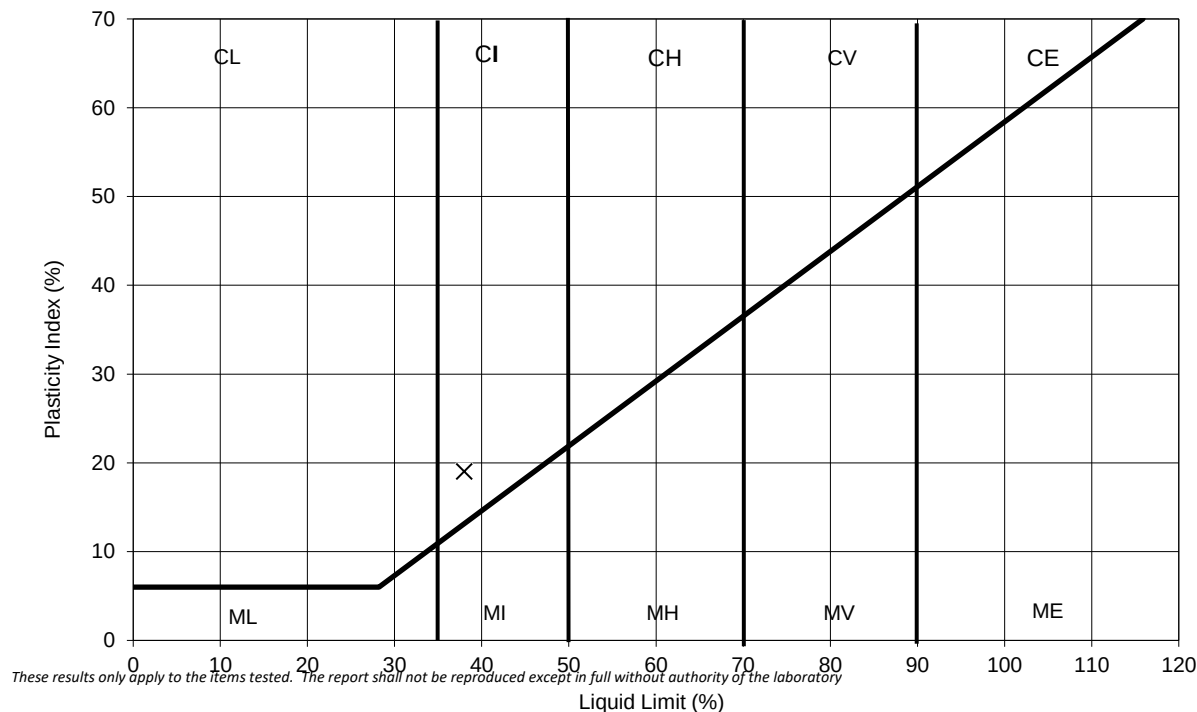
PLASTICITY INDEX

19

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)



TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR19

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

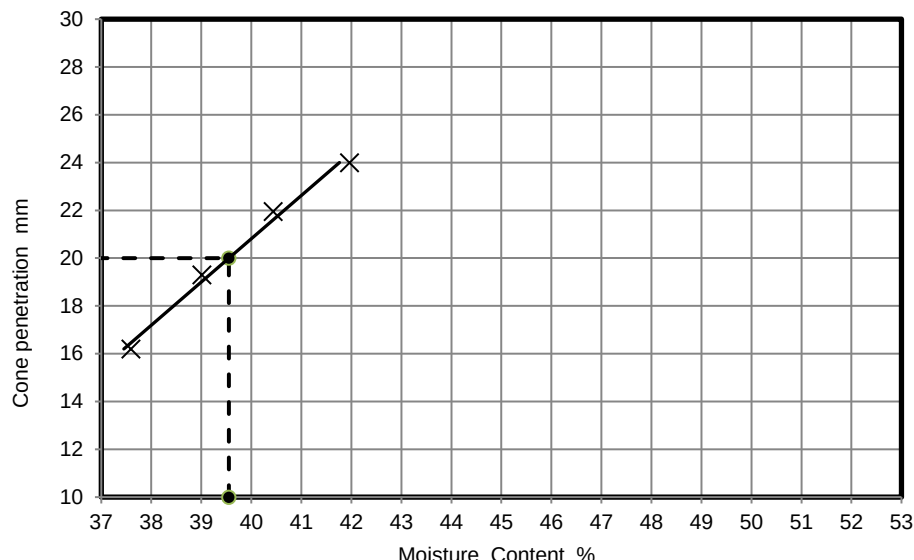
Light greyish brown and light grey slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

20

%

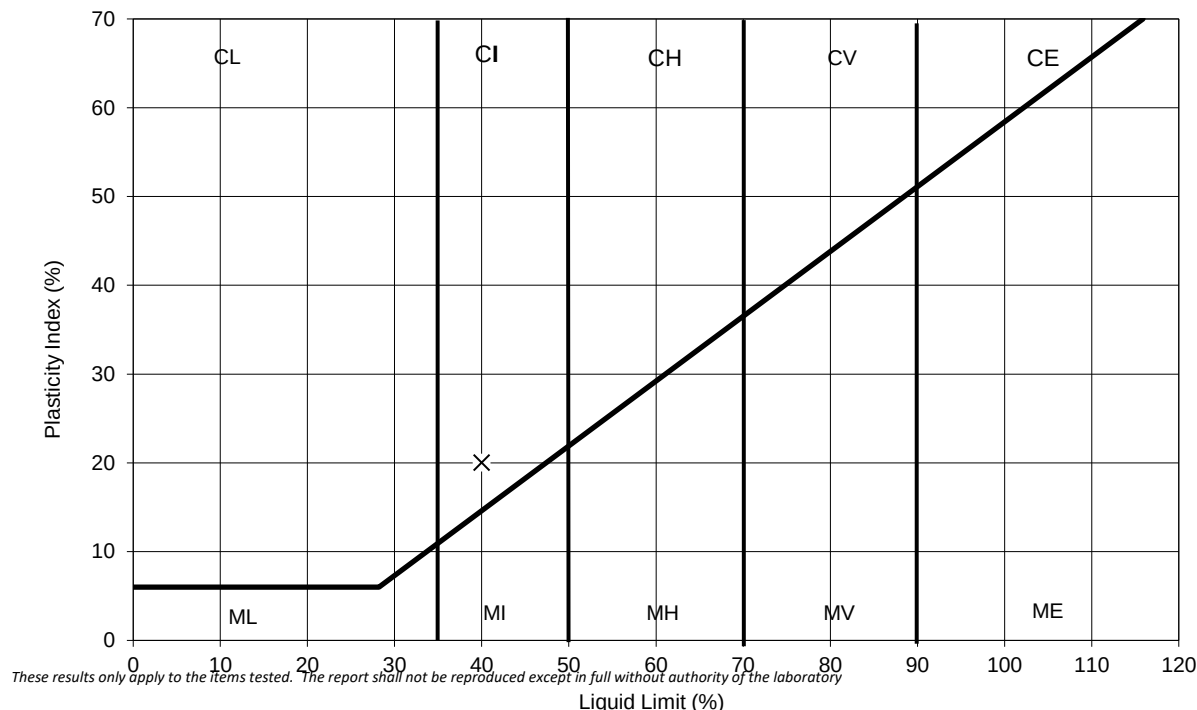
PLASTICITY INDEX

20

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR21

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

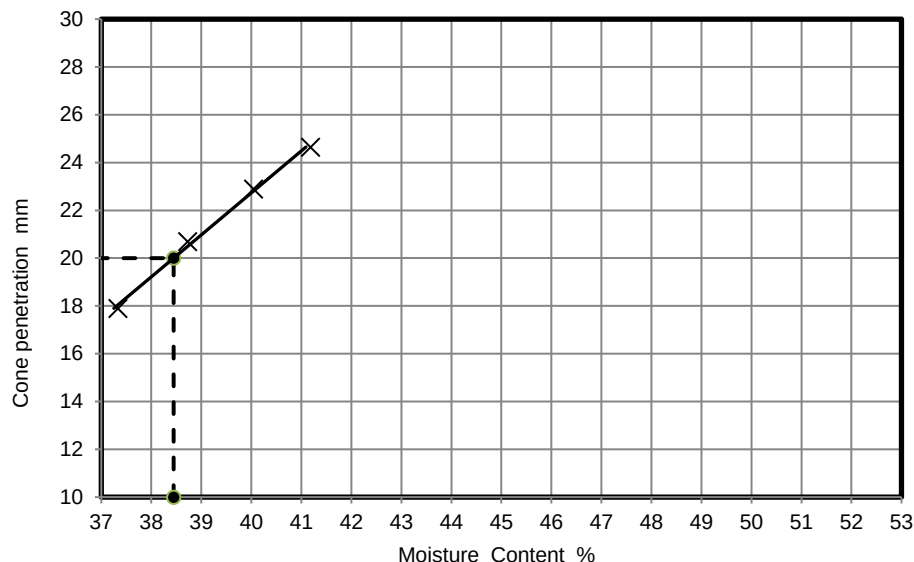
Light brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fm)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

20

%

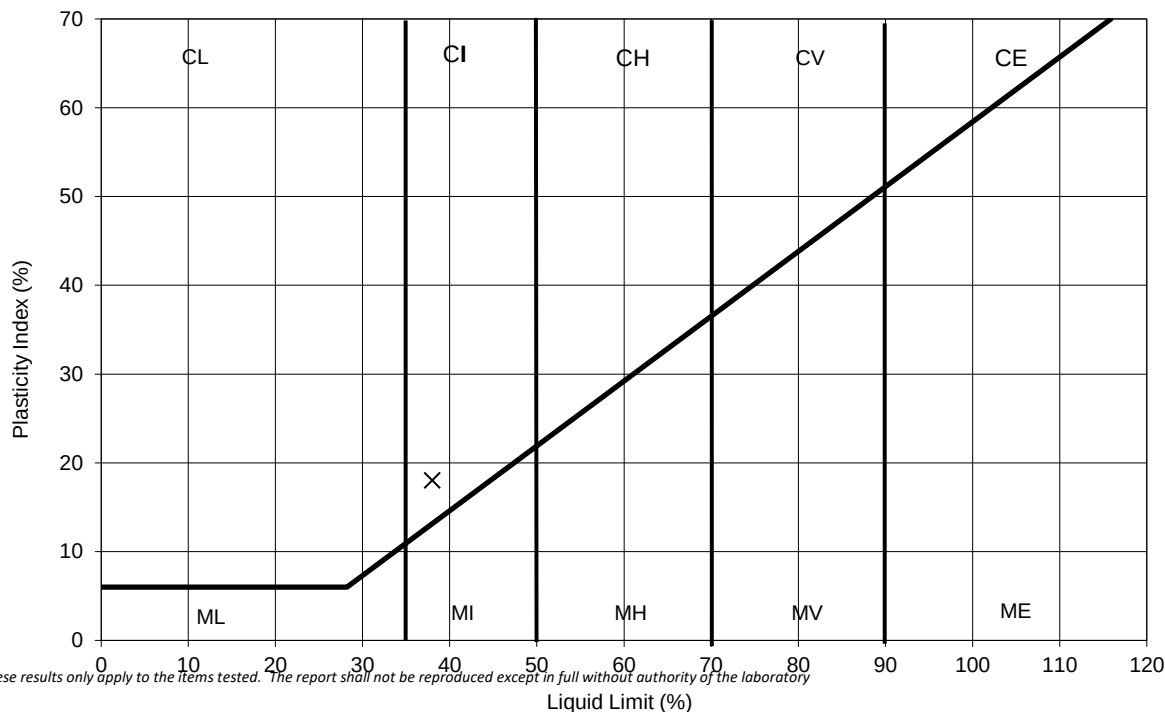
PLASTICITY INDEX

18

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR22

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

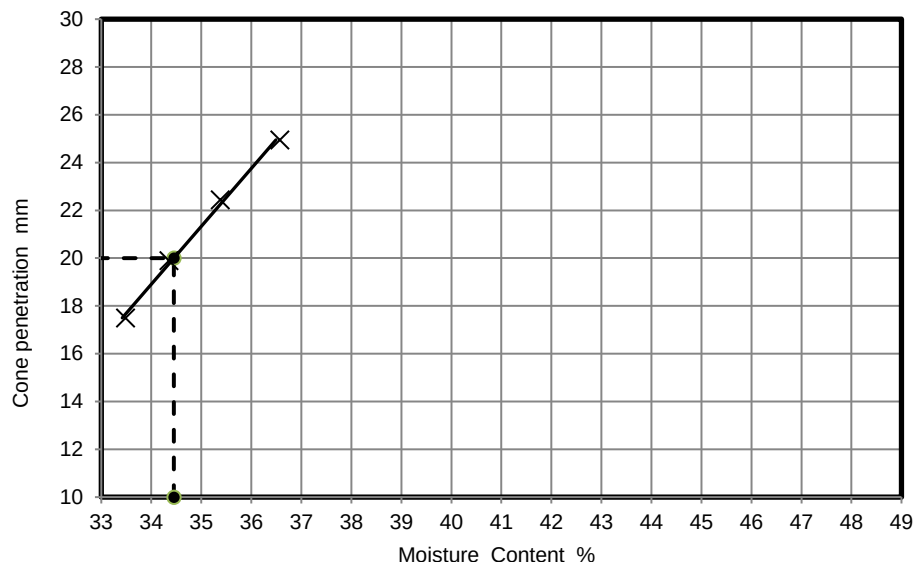
Light brown, light greenish grey and orangish brown and occasional ironstained slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

18

%

% PASSING 425µm SIEVE

97

%

LIQUID LIMIT

34

%

PLASTIC LIMIT

18

%

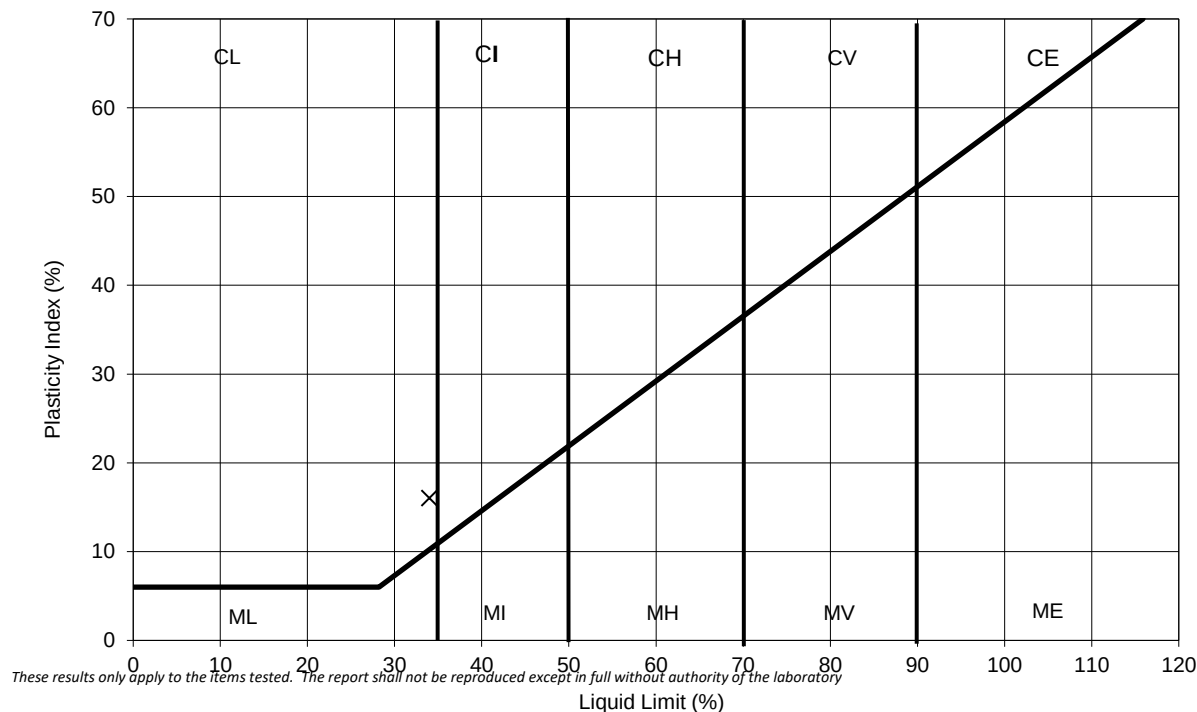
PLASTICITY INDEX

16

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR59

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

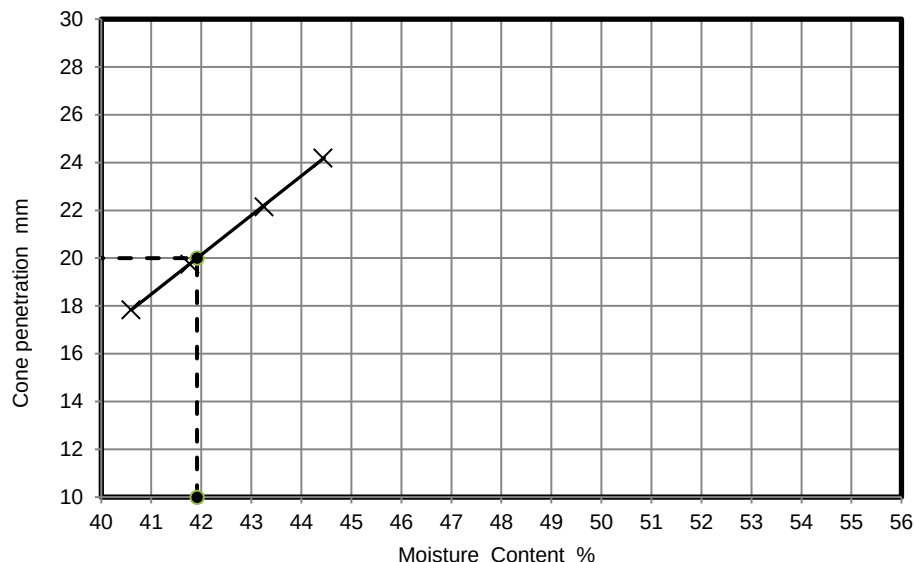
Soil Description Light grey mottled orangish brown silty CLAY with rare fine gravel and rootlets

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

20

%

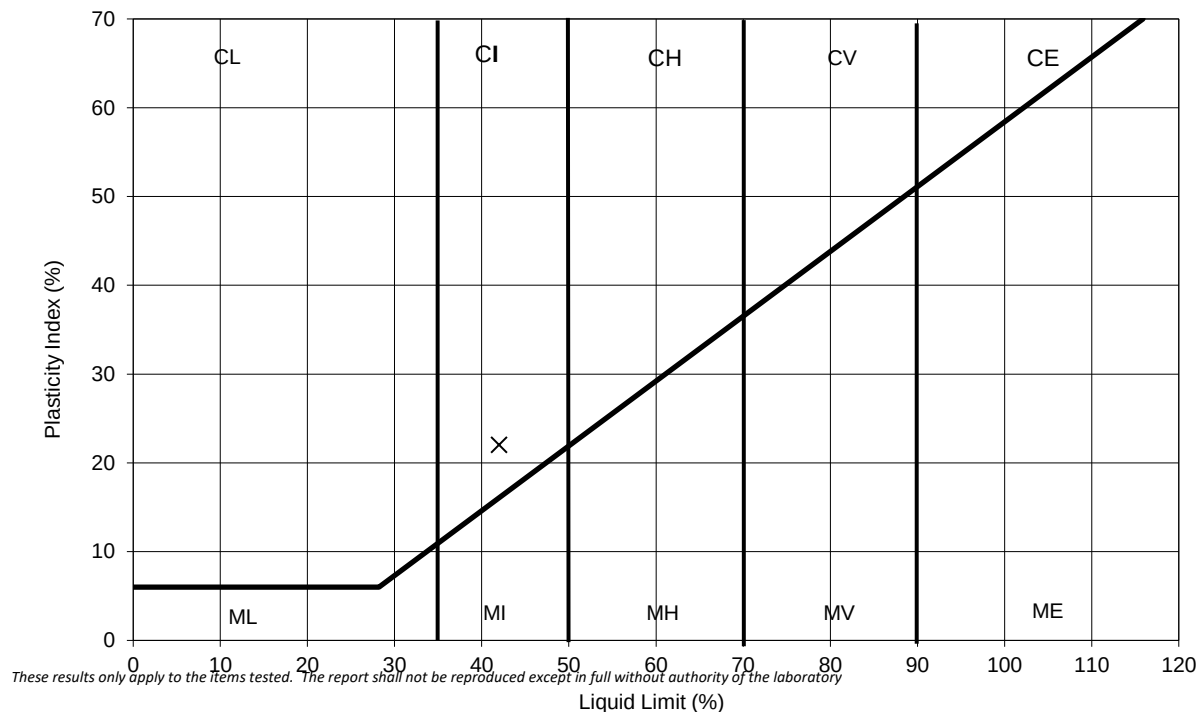
PLASTICITY INDEX

22

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR15

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

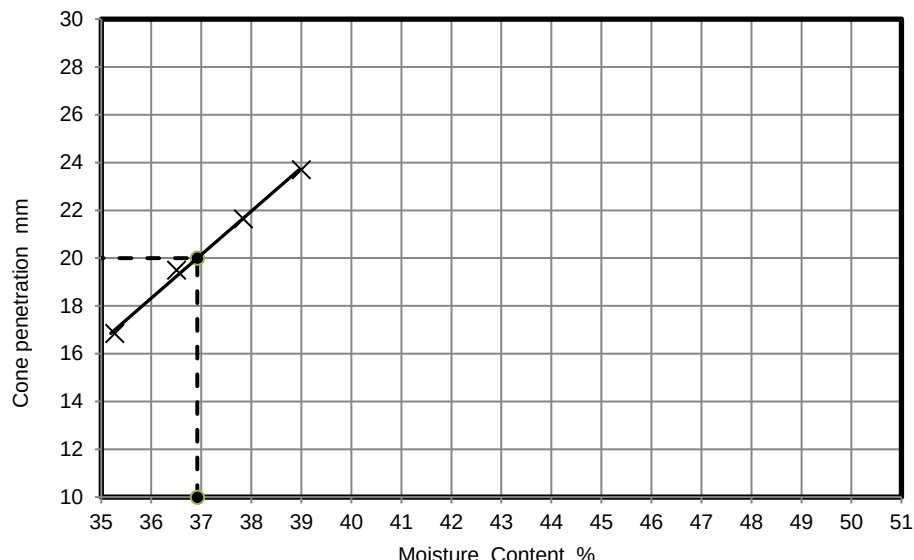
Light greenish grey and brown slightly gravelly slightly sandy silty CLAY (gravel is coarse mudstone fragments)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

13

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

20

%

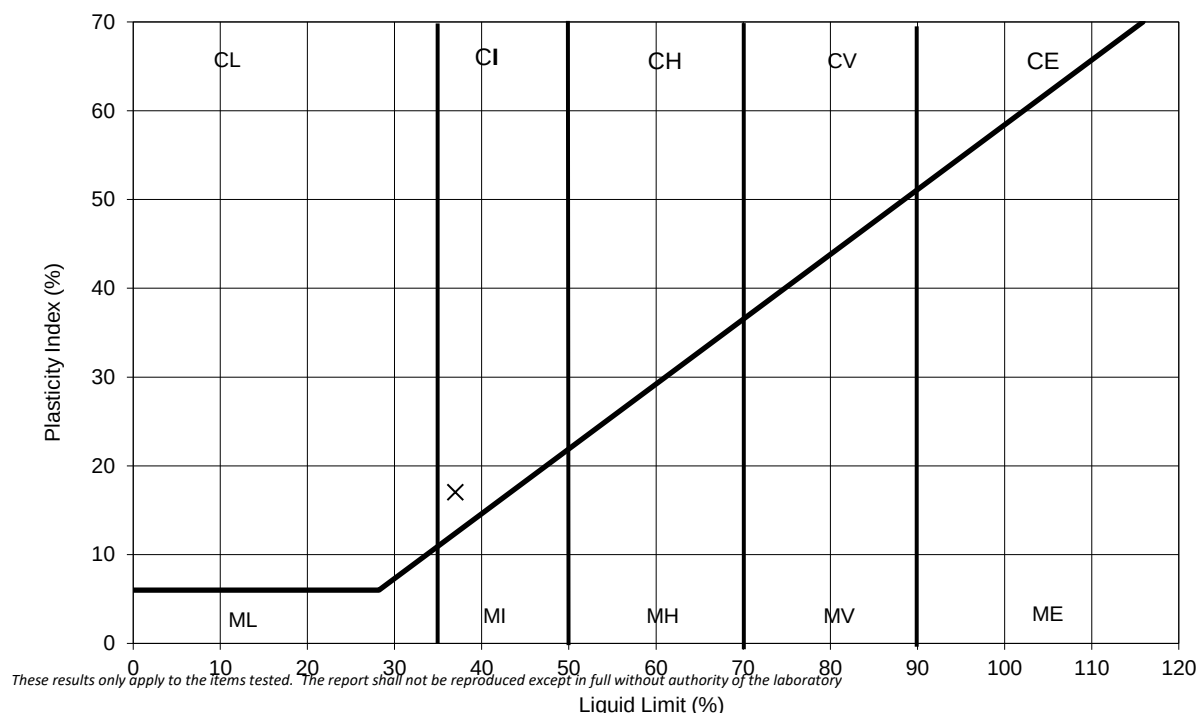
PLASTICITY INDEX

17

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR16

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

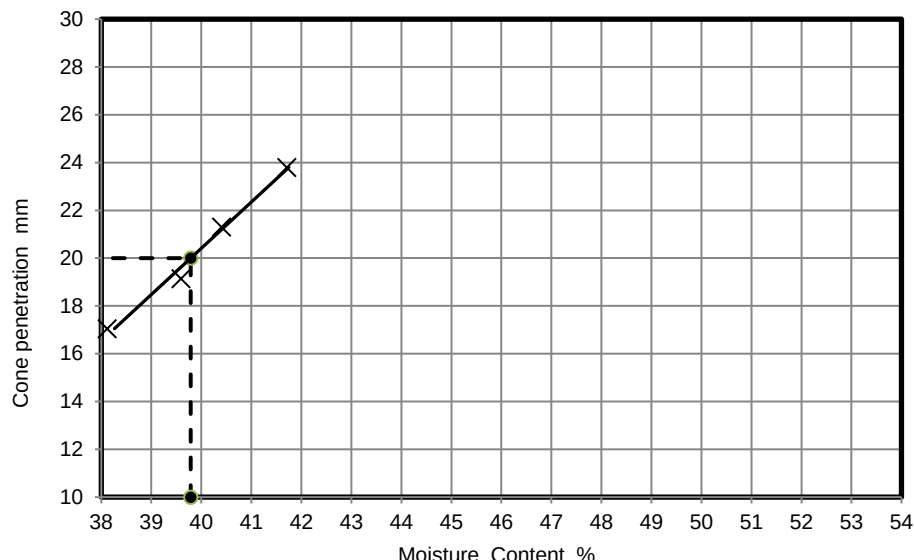
Light brown, orangish brown and light grey slightly gravelly slightly sandy silty CLAY (gravel is fmc mudstone fragments)

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 25/07/2022



NATURAL MOISTURE CONTENT

15

%

% PASSING 425µm SIEVE

95

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

19

%

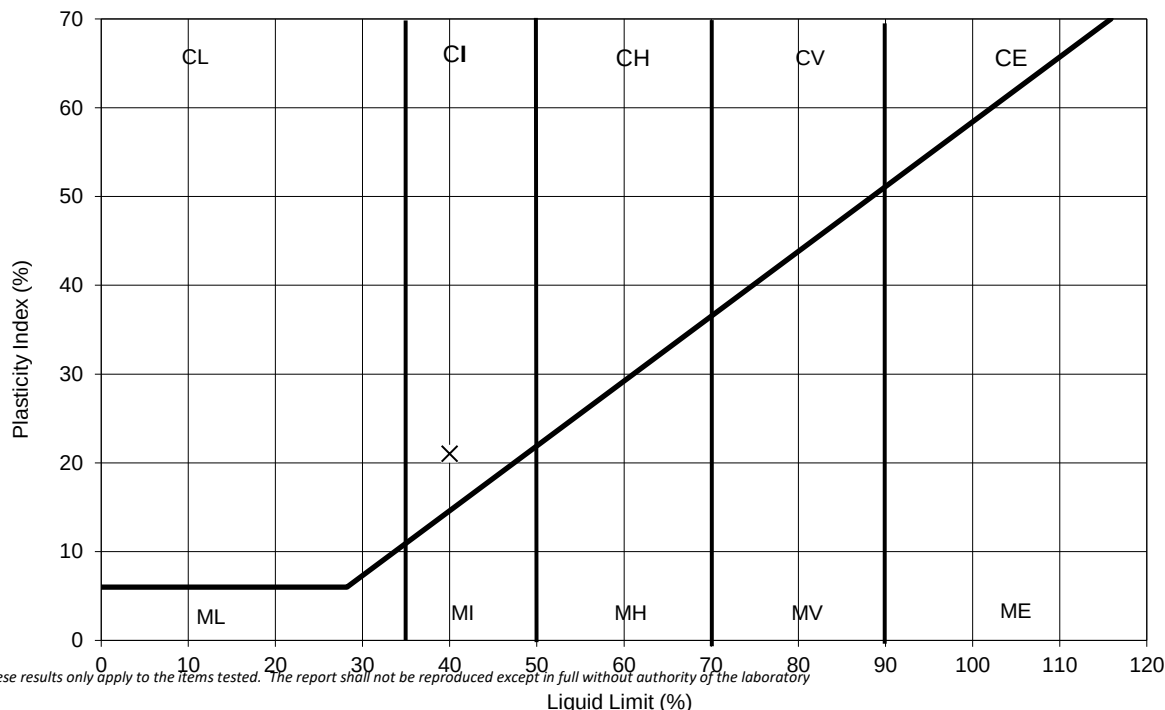
PLASTICITY INDEX

21

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 31873

Borehole/Pit No. CBR20

Site Name North Horsham II

Sample No. 1

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

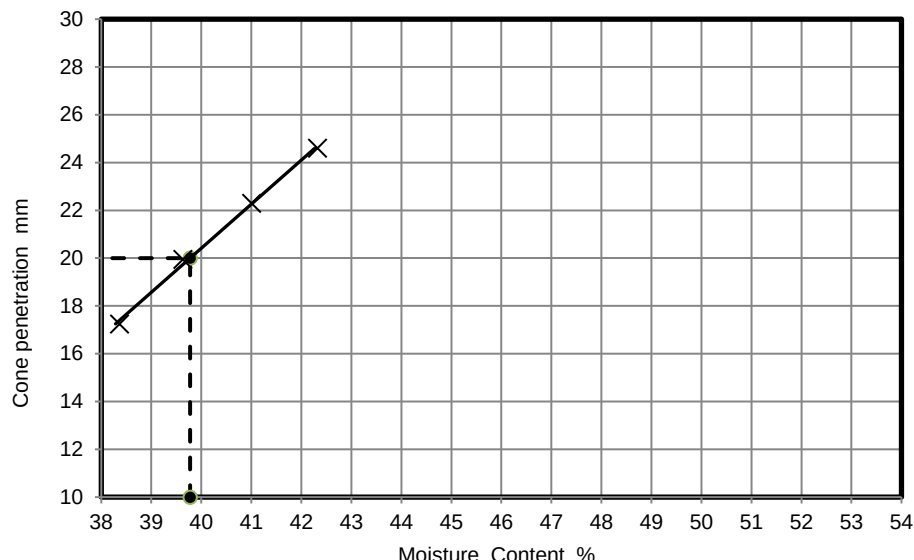
Light grey and orangish brown slightly sandy silty CLAY with rare fine gravel

Samples received 17/05/2022

Schedules received 16/05/2022

Project Started 17/05/2022

Date Tested 22/07/2022



NATURAL MOISTURE CONTENT

14

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

18

%

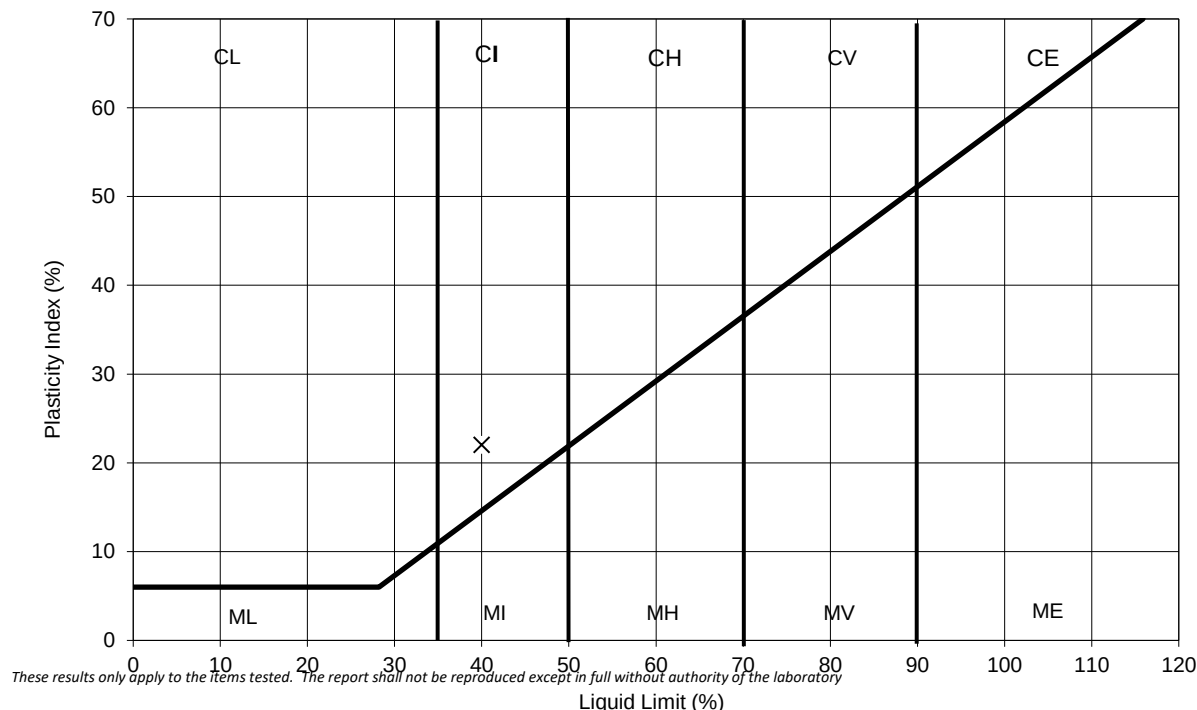
PLASTICITY INDEX

22

%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Liquid Limit (%)

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 13/09/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2





Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP07

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Brown sandy silty CLAY with occasional mudstone fragments

Depth Base - m

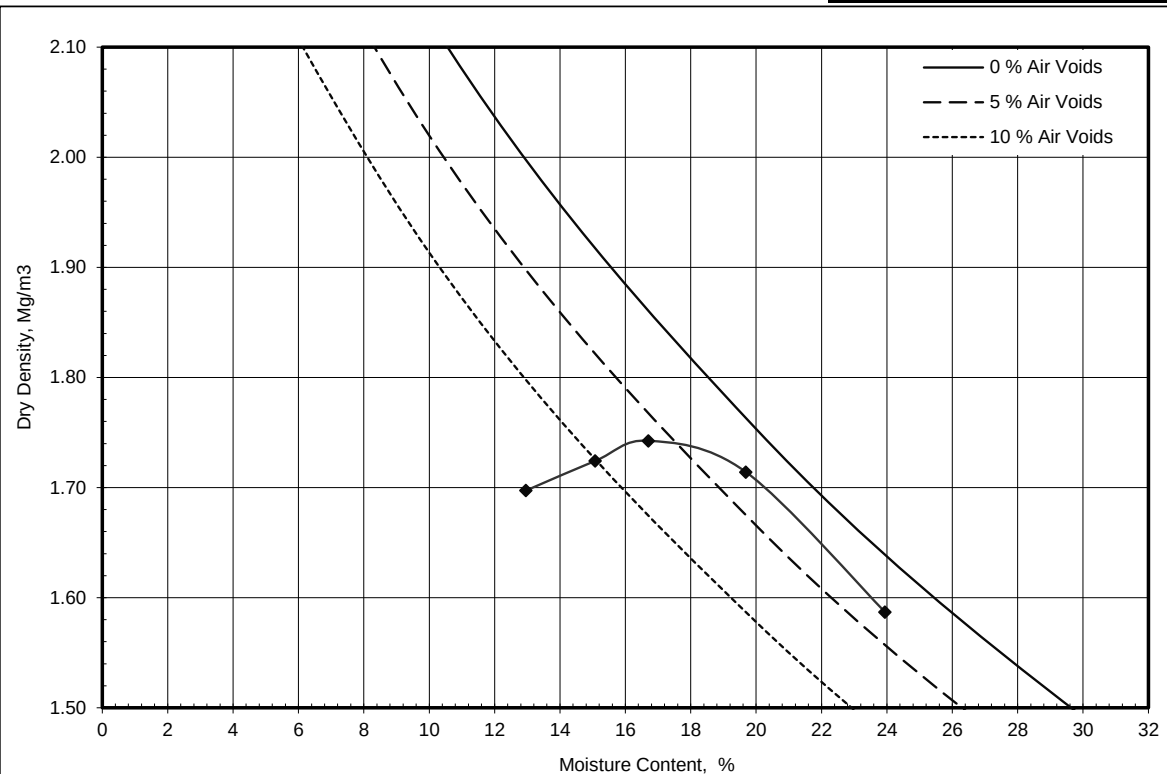
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 4
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³ 1.74
Optimum Moisture Content	% 17

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory

Checked and Approved

Initials: J.P

Date: 29/07/2022



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP12

Site Name North Horsham II

Sample No 12

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description

Light grey and brown slightly sandy silty CLAY with rare fm mudstone fragments

Depth Base - m

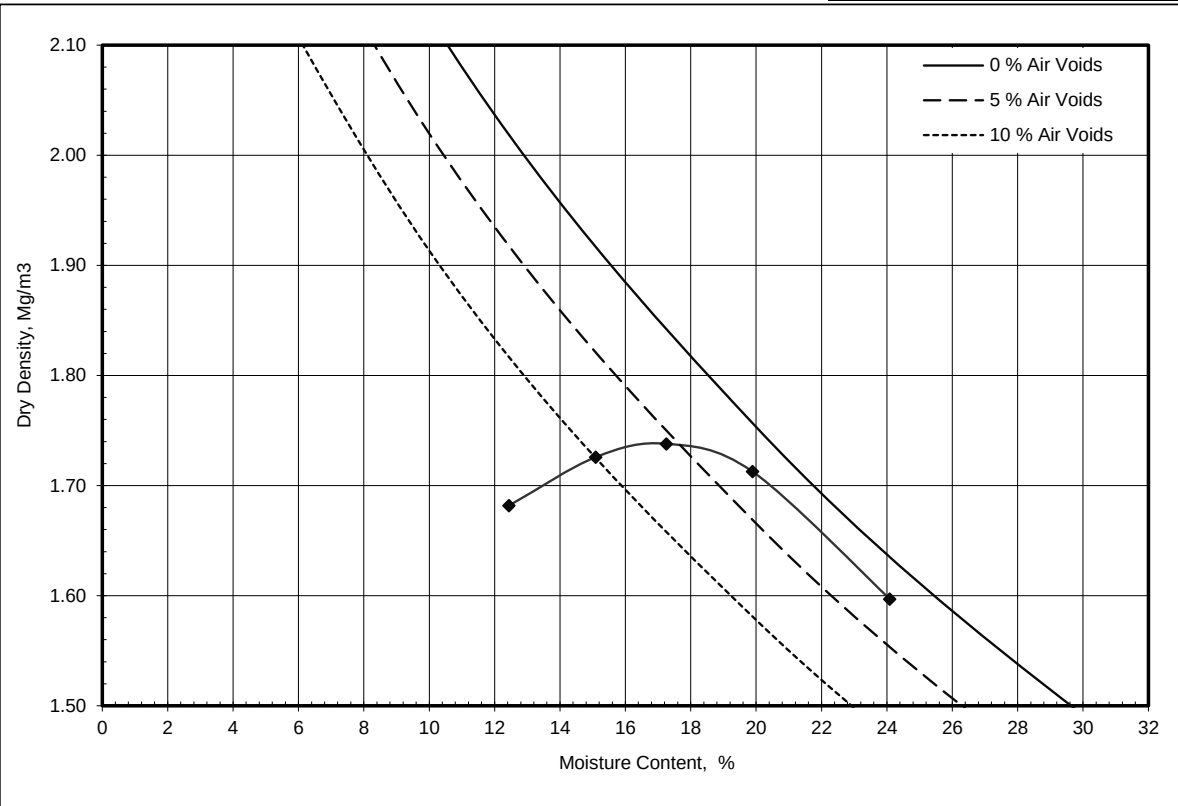
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.74
Optimum Moisture Content	%	17

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP19

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Brown sandy silty CLAY with occasional mudstone fragments

Depth Base - m

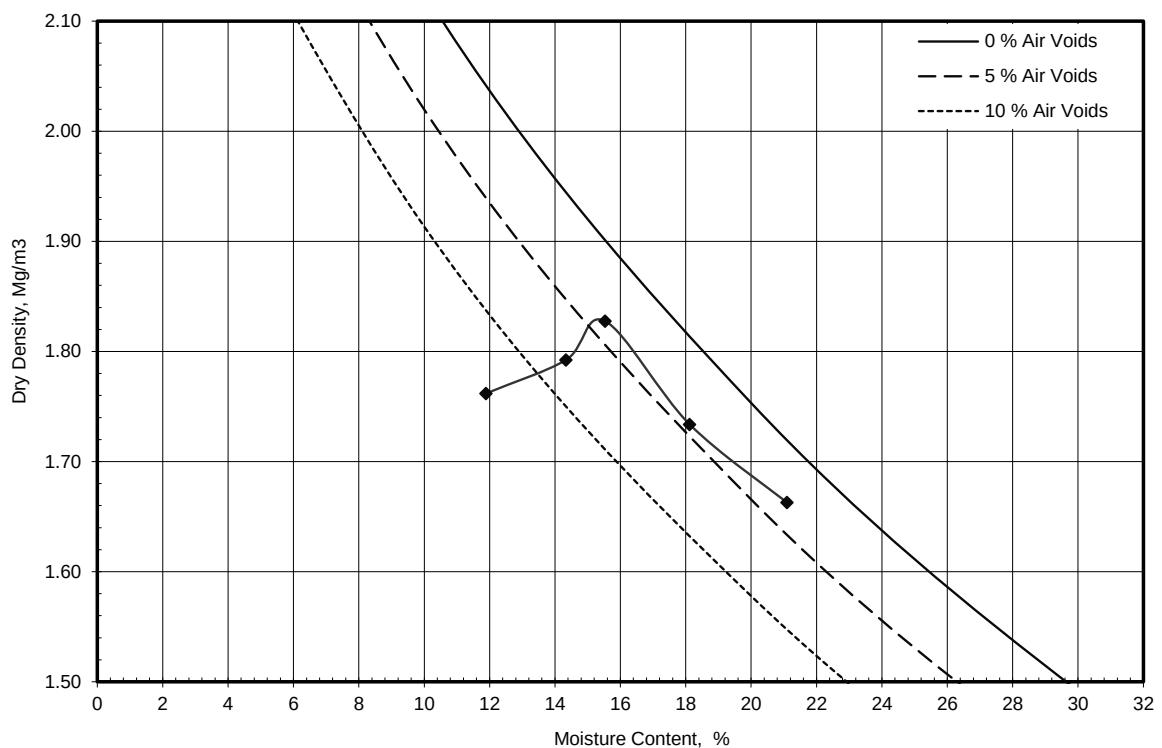
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 4
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.83
Optimum Moisture Content	%	16

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP20

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description

Light grey and brown slightly sandy silty CLAY with frequent fmc mudstone fragments

Depth Base - m

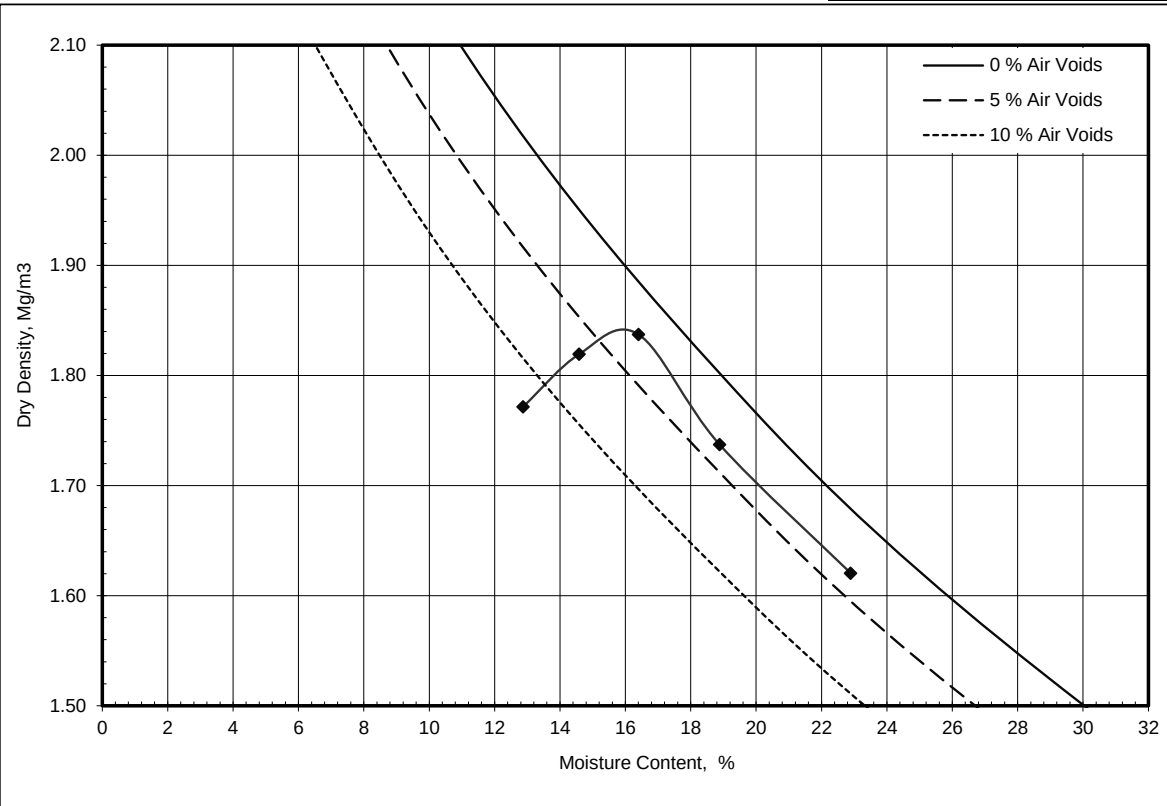
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 9
Material Retained on 20.0 mm Sieve	% 11
Particle Density - Assumed	Mg/m ³ 2.73

Maximum Dry Density	Mg/m ³ 1.84
Optimum Moisture Content	% 16

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP22

Site Name North Horsham II

Sample No 10

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description

Brown gravelly sandy silty CLAY (gravel is fmc and angular and elongated)

Depth Base - m

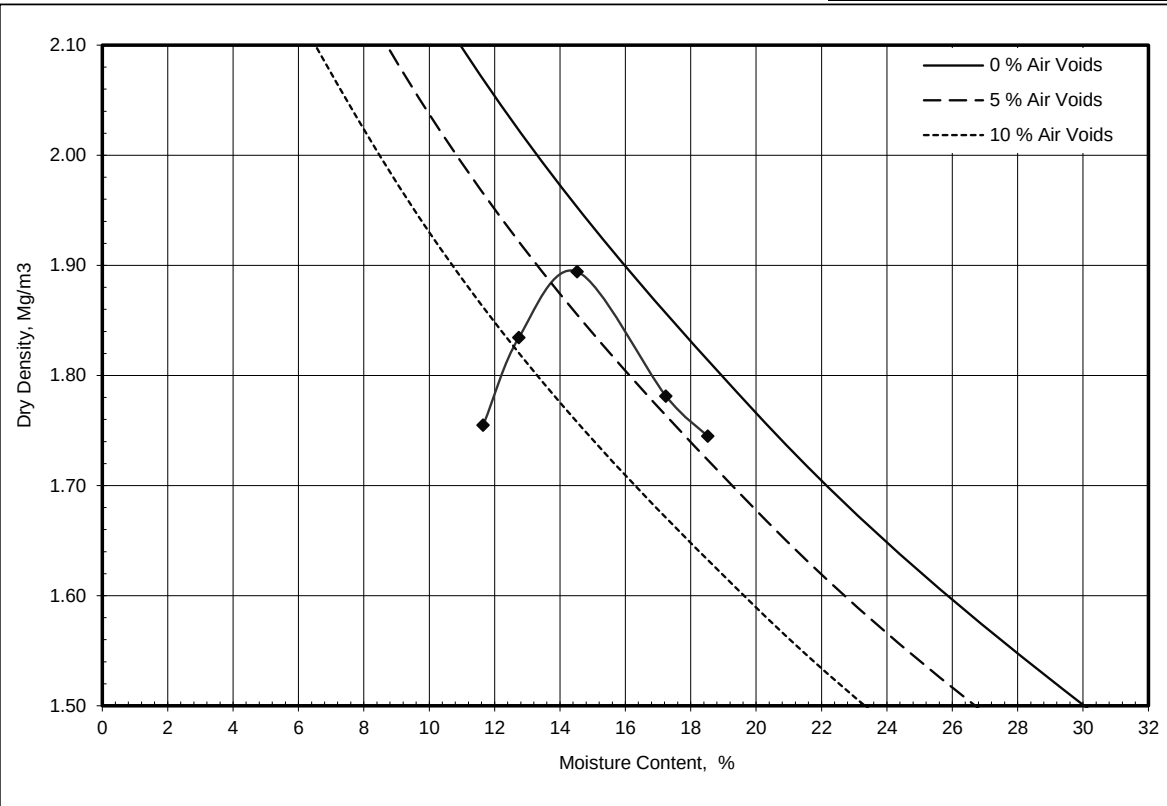
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 8
Particle Density - Assumed	Mg/m³ 2.73

Maximum Dry Density	Mg/m³	1.89
Optimum Moisture Content	%	15

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP25

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description Orangish brown and grey slightly sandy silty CLAY

Depth Base - m

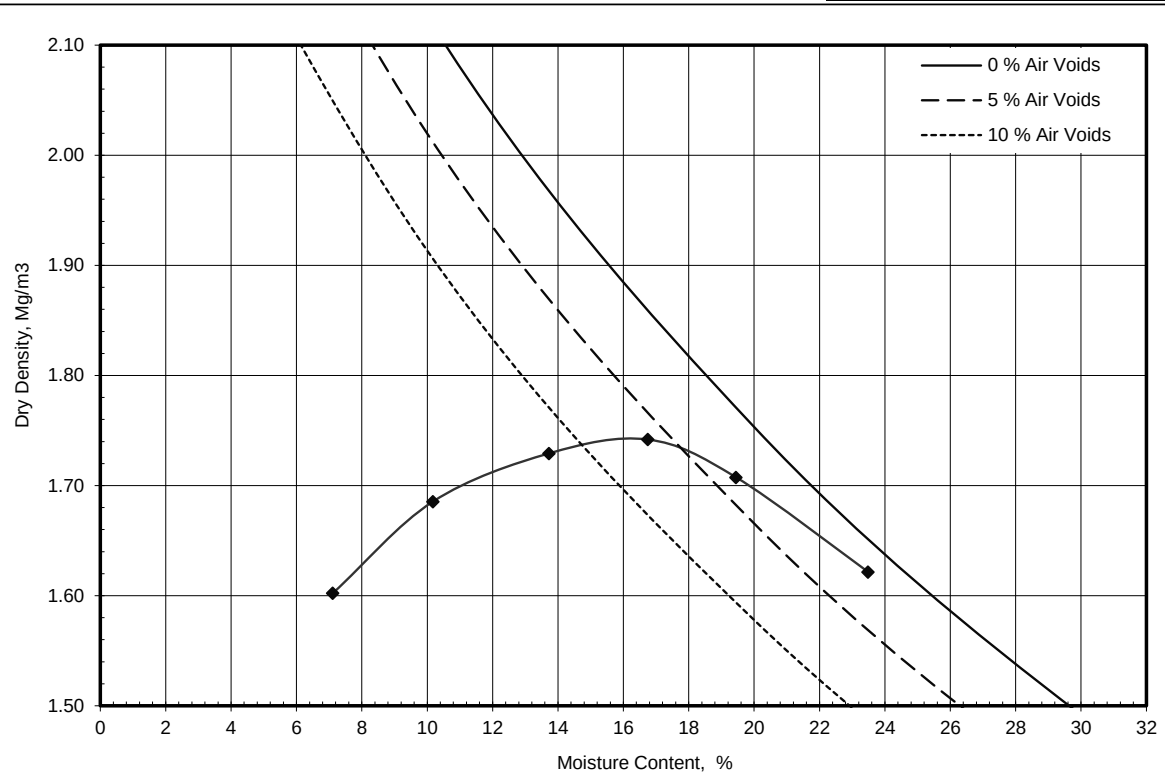
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.74
Optimum Moisture Content	%	17

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP26

Site Name North Horsham II

Sample No 10

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Grey sandy silty CLAY with occasional fine rootlets

Depth Base - m

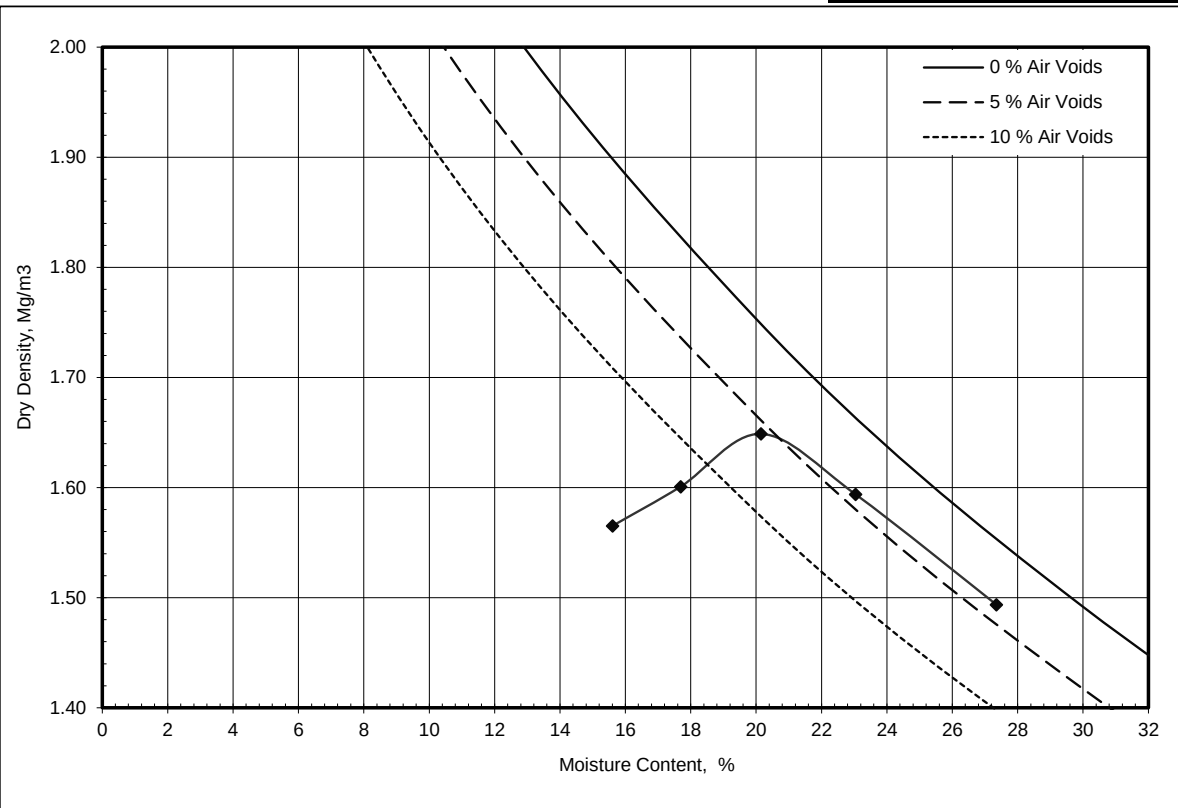
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.65
Optimum Moisture Content	%	20

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP29

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Brown slightly sandy silty CLAY

Depth Base - m

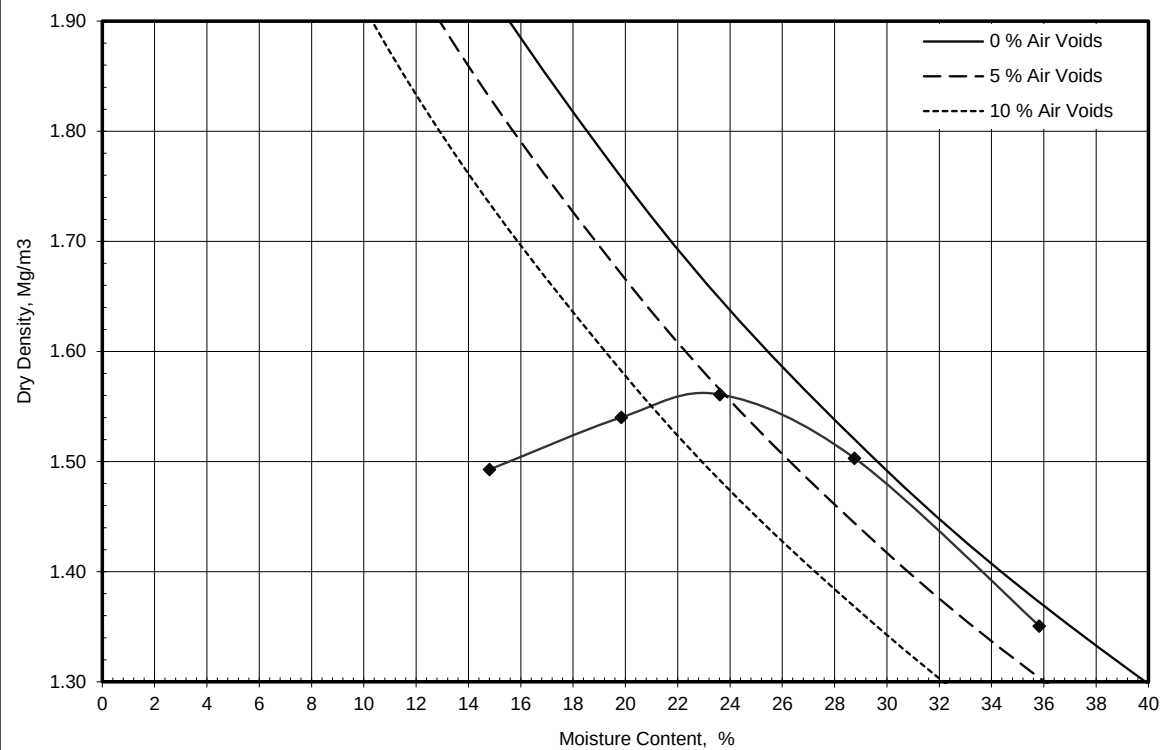
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³ 1.56
Optimum Moisture Content	% 23

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP31

Site Name North Horsham II

Sample No 11

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description Light grey and brown slightly sandy silty CLAY

Depth Base - m

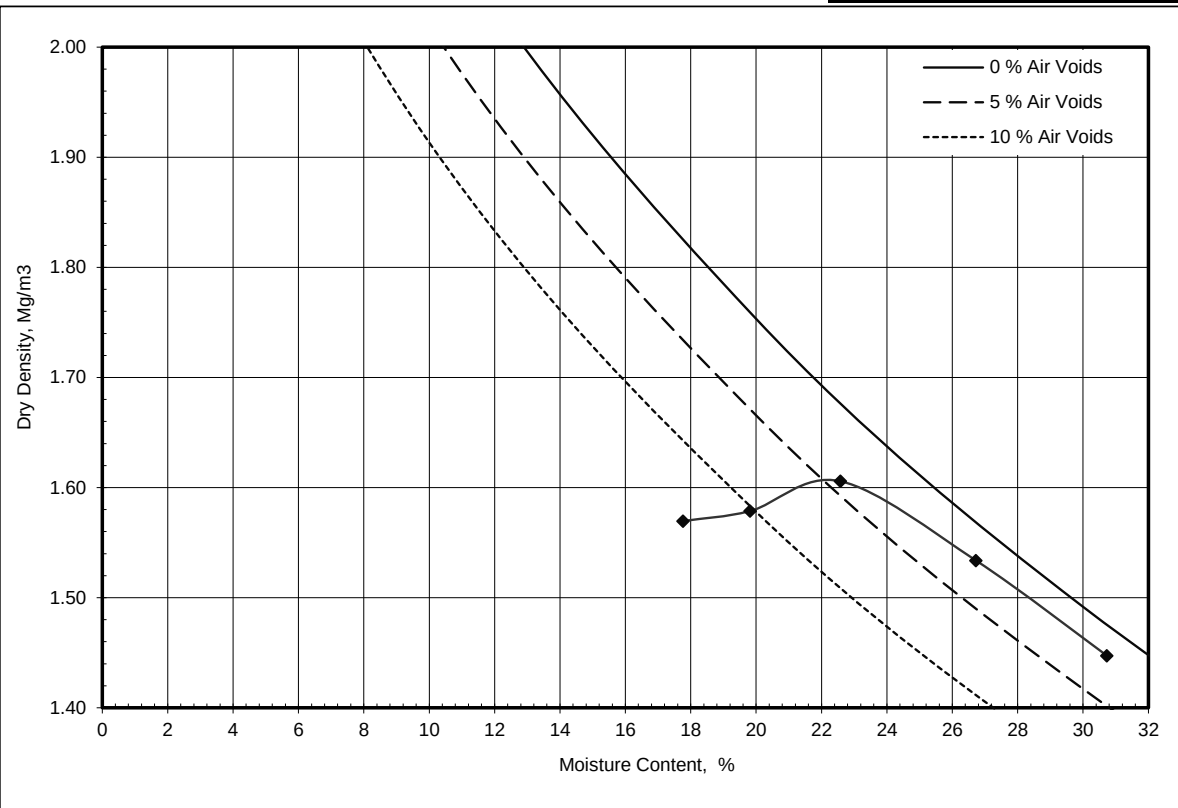
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.61
Optimum Moisture Content	%	23

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP36

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description

Orangish brown sandy silty CLAY with numerous weakly cemented mudstone fragments

Depth Base - m

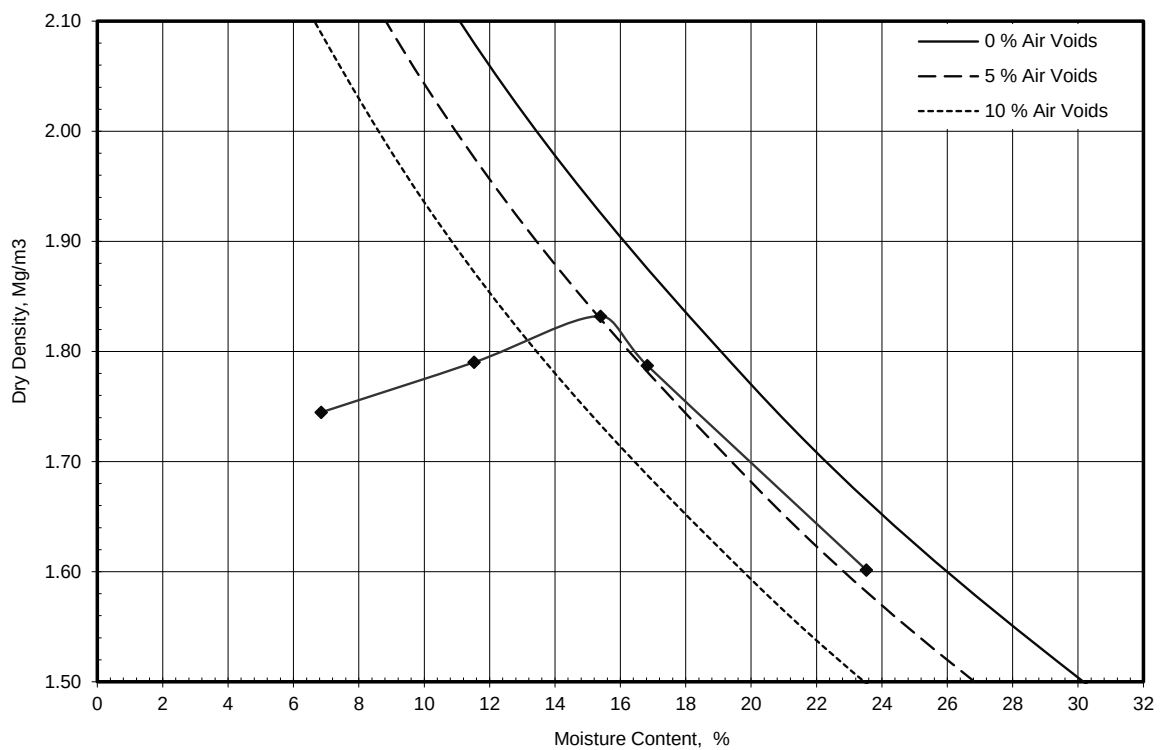
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.74

Maximum Dry Density	Mg/m³ 1.83
Optimum Moisture Content	% 15

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP39

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Brown slightly sandy silty CLAY with occasional fine rootlets

Depth Base - m

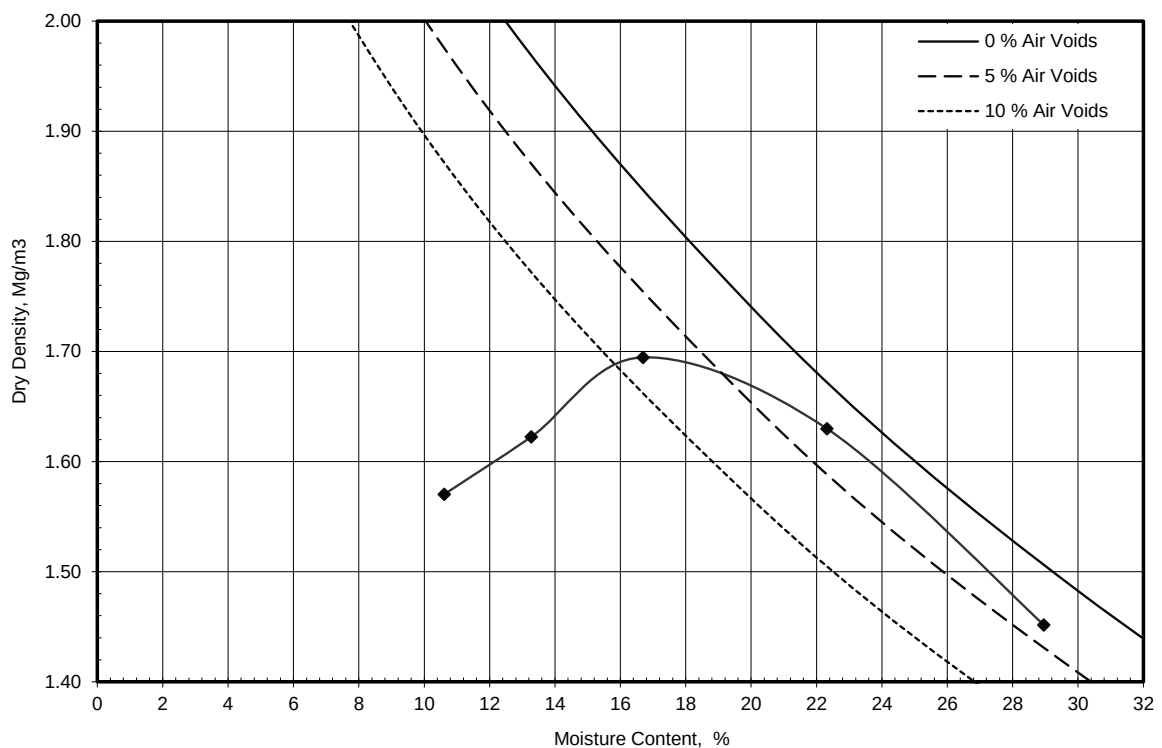
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m ³ 2.67

Maximum Dry Density	Mg/m ³ 1.69
Optimum Moisture Content	% 17

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP42

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Light grey and brown slightly sandy silty CLAY

Depth Base - m

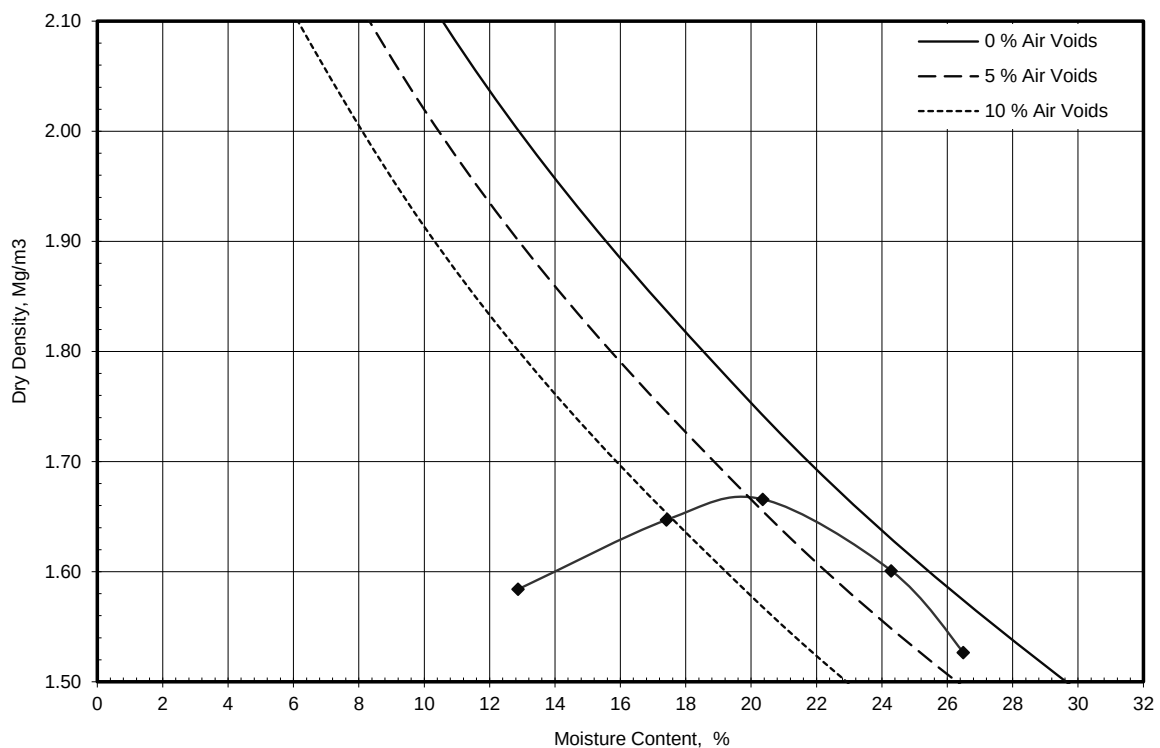
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³ 1.67
Optimum Moisture Content	% 20

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP44

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Light brown slightly mottled bluish grey slightly sandy silty CLAY

Depth Base - m

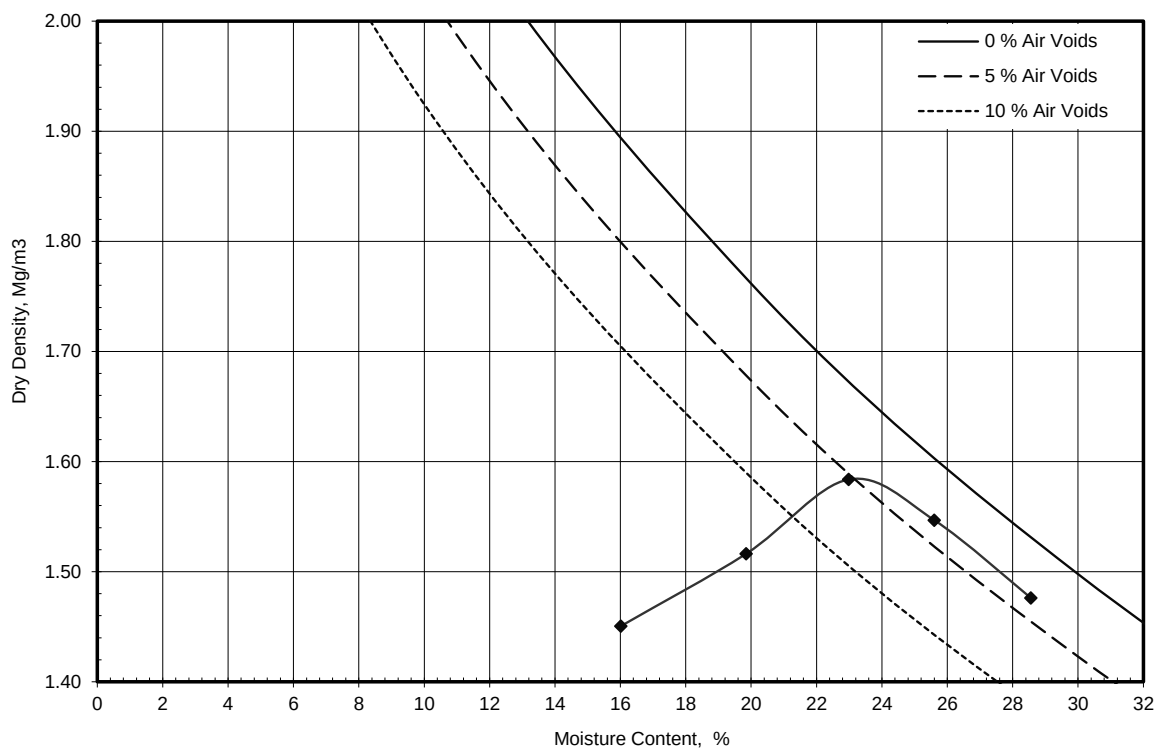
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.72

Maximum Dry Density	Mg/m³ 1.58
Optimum Moisture Content	% 23

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP46

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description

Light brown slightly mottled bluish grey slightly sandy silty CLAY

Depth Base - m

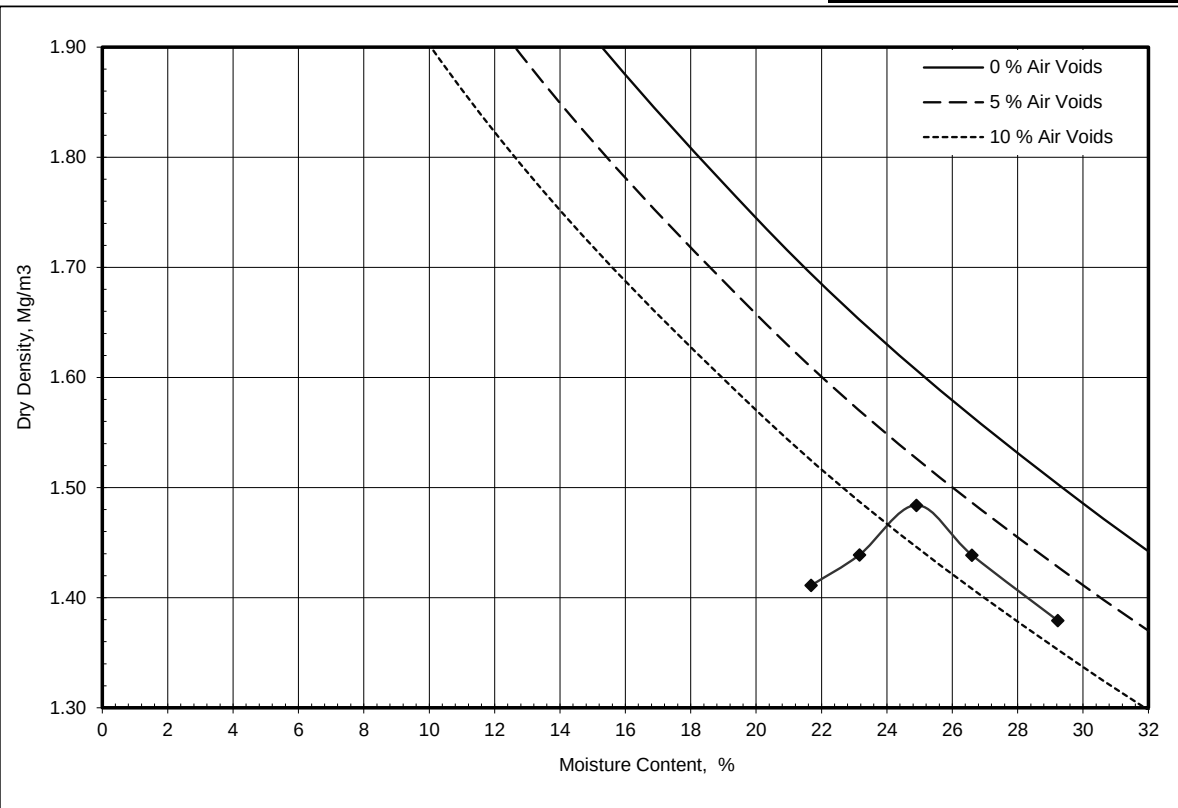
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.68

Maximum Dry Density	Mg/m³ 1.48
Optimum Moisture Content	% 25

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP54

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description Brown slightly gravelly slightly sandy silty CLAY (gravel is fmc and angular)

Depth Base - m

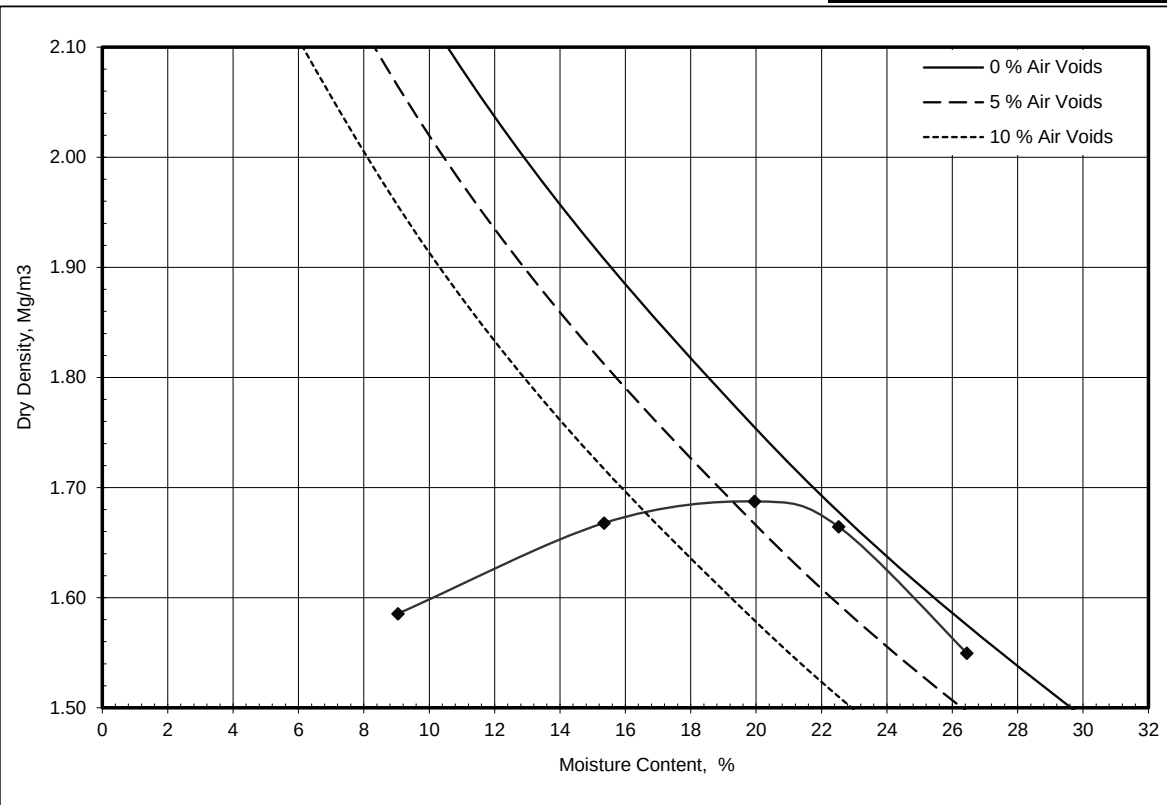
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.69
Optimum Moisture Content	%	20

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP62

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description

Brown slightly sandy silty CLAY with occasional medium to coarse brick fragments

Depth Base - m

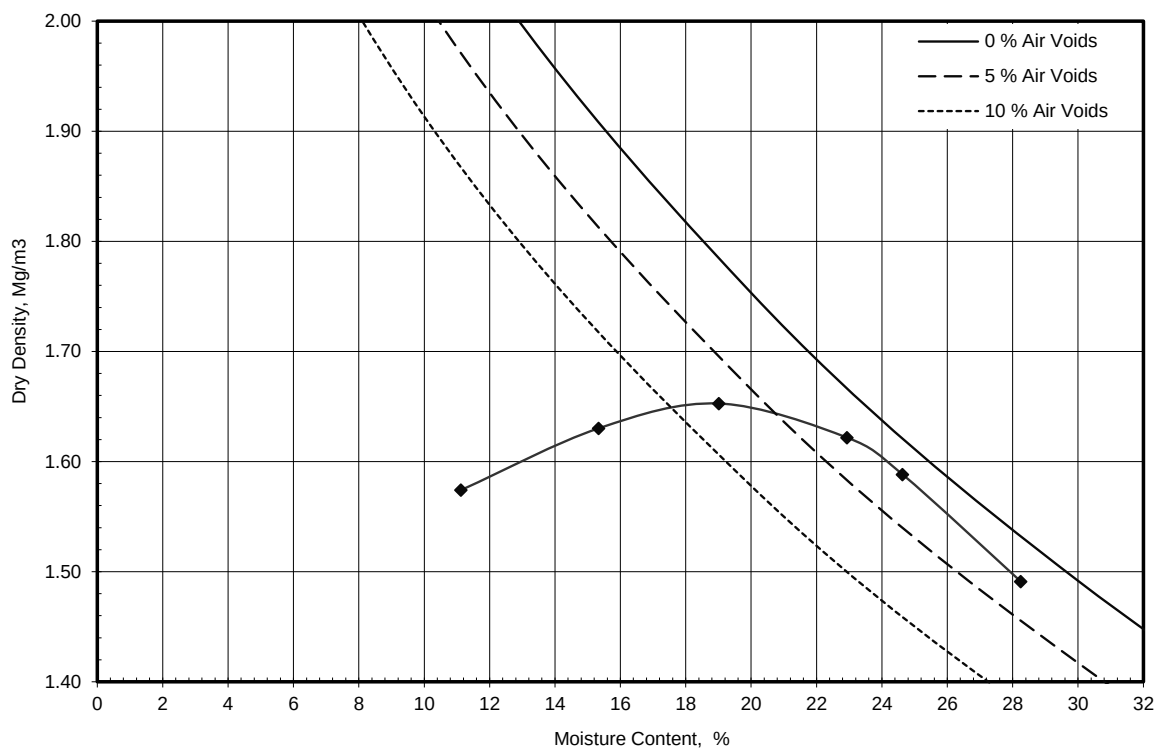
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m ³ 2.70

Maximum Dry Density	Mg/m ³ 1.65
Optimum Moisture Content	% 19

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship Light Compaction

Job Ref 31873

Borehole / Pit No TP65

Site Name North Horsham II

Sample No 8

Project No. GE20724

Client

GESL

Depth Top 1.00 m

Soil Description Brown silty CLAY

Depth Base - m

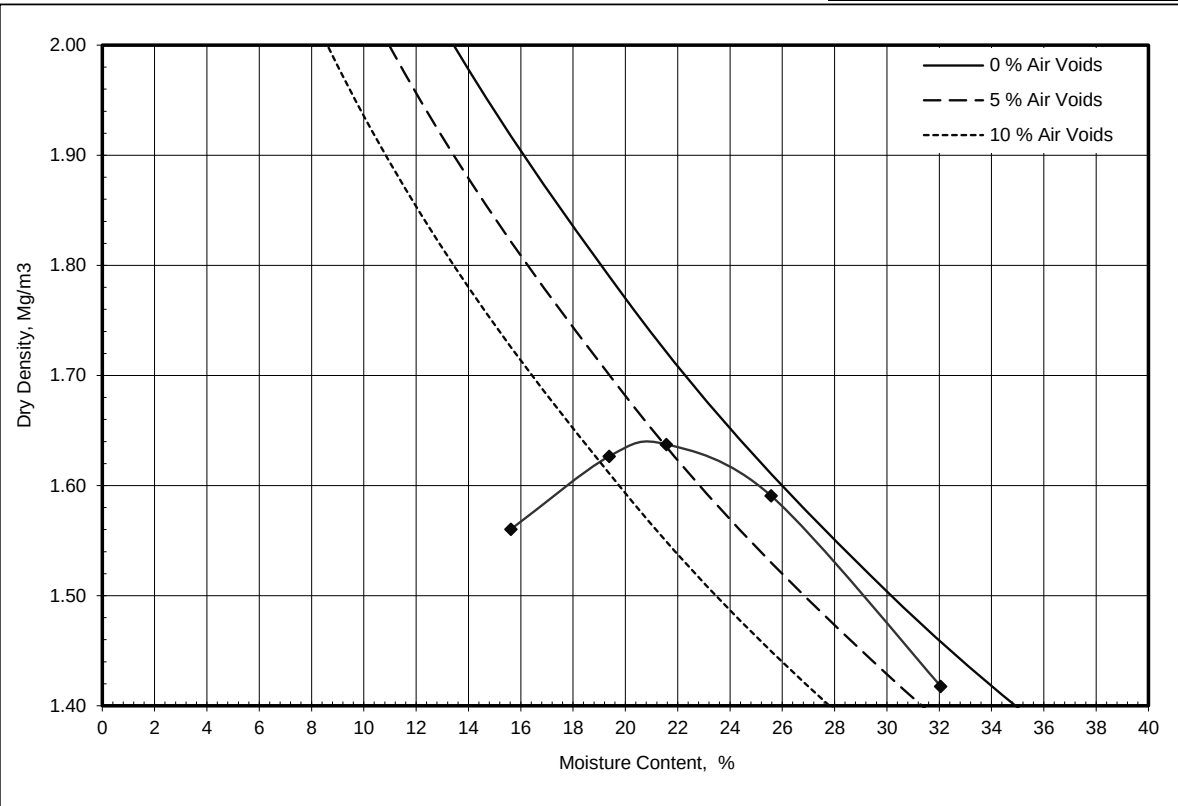
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	15/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.74

Maximum Dry Density	Mg/m³	1.64
Optimum Moisture Content	%	21

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

Checked and
Approved

Initials: J.P

Date: 29/07/2022

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory



Dry Density / Moisture Content Relationship **Light Compaction**

Job Ref 31873

Borehole / Pit No TP69

Site Name North Horsham II

Sample No 7

Project No. GE20724

Client

GESL

Depth Top 0.50 m

Soil Description Brown sandy silty CLAY

Depth Base - m

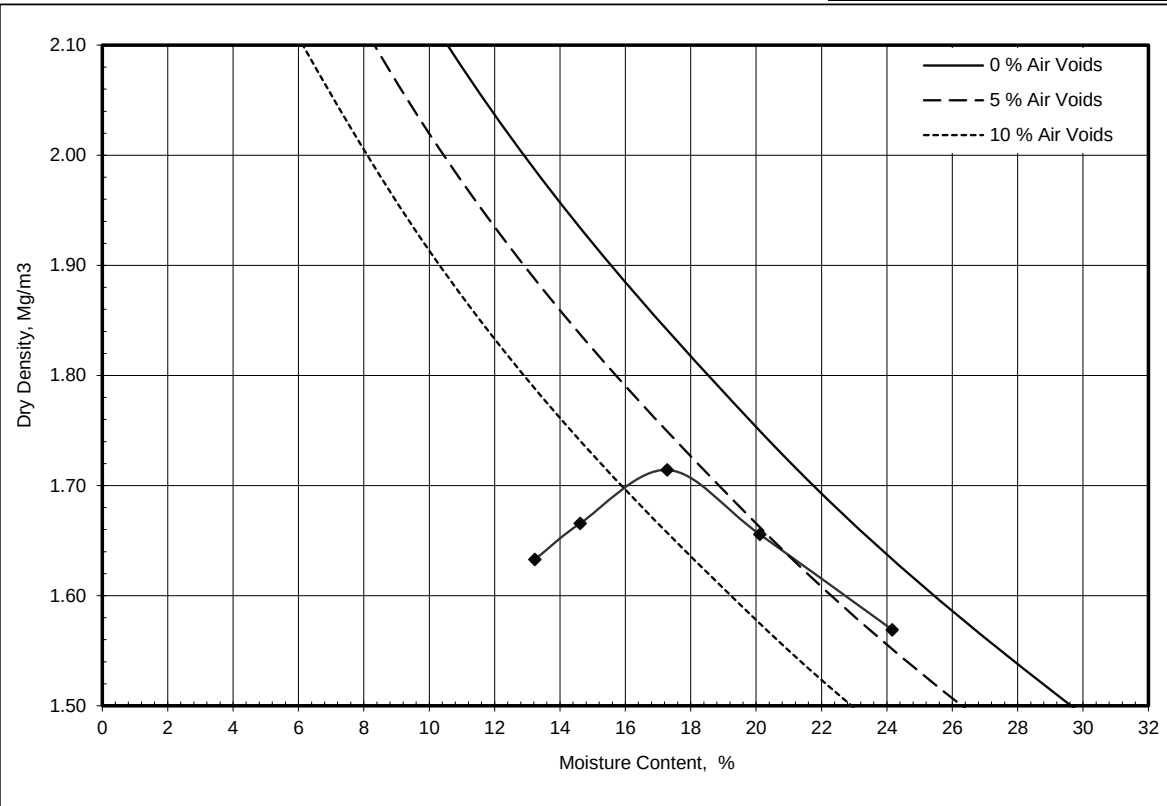
Sample Type B

Test Method BS1377:Part 4:1990, clause 3.3, 2.5kg rammer

Samples received 17/05/22-17/06/22

Schedule received 16/05/2022

Project Started 17/05/2022



Test Started	12/07/2022
Preparation	Material used was natural
Mould Type	One Litre
Samples Used	Single sample tested
Material Retained on 37.5 mm Sieve	% 0
Material Retained on 20.0 mm Sieve	% 0
Particle Density - Assumed	Mg/m³ 2.70

Maximum Dry Density	Mg/m³	1.71
Optimum Moisture Content	%	17

Remarks	
---------	--



Test Report by K4 SOILS LABORATORY

Unit 8 Olds Close Olds Approach

Watford Herts WD18 9RU

Tel: 01923 711 288

Email: James@k4soils.com

These results only apply to the items tested. NOTE: The report shall not be reproduced except in full without authority of the laboratory

Checked and Approved

Initials: J.P

Date: 29/07/2022

		Summary of Point Load Test Results												
Job No.		Project Name										Programme		
31873		North Horsham II										Samples received	17/05/2022	
Project No.		Client										Schedule received	16/05/2022	
GE20724		GESL										Project started	17/05/2022	
												Date started	01/08/2022	
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks
	Ref	Top m	Base m	Type										
BH103	4	3.20	-	D	Grey slightly mottled orangish brown fractured MUDSTONE fragments	Irregular lump	75.00	44.00	0.21	64.82	0.05	1.12	0.06	
BH103	4	3.20	-	D	Grey slightly mottled orangish brown fractured MUDSTONE fragments	Irregular lump	51.00	32.00	0.10	45.58	0.05	0.96	0.05	
BH103	4	3.20	-	D	Grey slightly mottled orangish brown fractured MUDSTONE fragments	Irregular lump	51.00	19.00	0.03	35.13	0.02	0.85	0.02	
BH103	4	3.20	-	D	Grey slightly mottled orangish brown fractured MUDSTONE fragments	Irregular lump	44.00	18.00	0.02	31.76	0.02	0.82	0.02	
BH103	4	3.20	-	D	Grey slightly mottled orangish brown fractured MUDSTONE fragments	Irregular lump	41.00	27.00	0.02	37.54	0.01	0.88	0.01	
BH104	7	3.55	-	D	Light grey SILTSTONE core with occasional lenses of black carbonaceous deposits	Diametral	100.00	100.00	2.40	112.84	0.19	1.44	0.27	
BH104	7	3.55	-	D	Light grey SILTSTONE core with occasional lenses of black carbonaceous deposits	Axial	100.00	39.00	3.40	70.47	0.68	1.17	0.80	
BH104	7	3.55	-	D	Light grey SILTSTONE core with occasional lenses of black carbonaceous deposits	Axial	100.00	13.00	1.70	40.68	1.03	0.91	0.94	
BH104	7	3.55	-	D	Light grey SILTSTONE core with occasional lenses of black carbonaceous deposits	Irregular lump	40.00	40.00	1.45	45.14	0.71	0.95	0.68	
BH104	7	3.55	-	D	Light grey SILTSTONE core with occasional lenses of black carbonaceous deposits	Irregular lump	54.00	35.00	3.00	49.06	1.25	0.99	1.24	
BH102	15	5.67	-	D	Grey slightly fissured SILTSTONE core	Diametral	100.00	100.00	1.40	112.84	0.11	1.44	0.16	

Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com		Checked and Approved Initials J.P Date: 03/08/2022

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R33

					Summary of Point Load Test Results										
Job No.		Project Name										Programme			
31873		North Horsham II										Samples received	17/05/2022		
												Schedule received	16/05/2022		
Project No.		Client										Project started			
GE20724		GESL										Date started			
												17/05/2022			
												01/08/2022			
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks	
	Ref	Top m	Base m	Type											
BH102	15	5.67	-	D	Grey slightly fissured SILTSTONE core	Diametral	100.00	100.00	0.05	112.84	0.00	1.44	0.01	Failed on fissuration	
BH102	15	5.67	-	D	Grey slightly fissured SILTSTONE core	Axial	100.00	46.00	2.80	76.53	0.48	1.21	0.58		
BH102	15	5.67	-	D	Grey slightly fissured SILTSTONE core	Axial	100.00	26.00	0.62	57.54	0.19	1.07	0.20		
BH102	15	5.67	-	D	Grey slightly fissured SILTSTONE core	Axial	100.00	23.00	0.80	54.12	0.27	1.04	0.28		
BH101	13	5.90	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	1.11	112.84	0.09	1.44	0.13		
BH101	13	5.90	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	2.32	112.84	0.18	1.44	0.26		
BH101	13	5.90	-	D	Grey SILTSTONE core	Axial	100.00	57.00	1.41	85.19	0.19	1.27	0.25		
BH101	13	5.90	-	D	Grey SILTSTONE core	Axial	100.00	38.00	2.01	69.56	0.42	1.16	0.48		
BH101	13	5.90	-	D	Grey SILTSTONE core	Axial	100.00	57.00	2.01	85.19	0.28	1.27	0.35		
BH102	19	8.14	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	3.20	112.84	0.25	1.44	0.36		
BH102	19	8.14	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	1.42	112.84	0.11	1.44	0.16		
Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength						Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com								Checked and Approved Initials: J.P Date: 03/08/2022	
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)														MSF-5-R33	

					Summary of Point Load Test Results									
Job No.		Project Name										Programme		
31873		North Horsham II										Samples received	17/05/2022	
												Schedule received	16/05/2022	
Project No.		Client										Project started		
GE20724		GESL										Date started		
												17/05/2022		
												01/08/2022		
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks
	Ref	Top m	Base m	Type										
BH102	19	8.14	-	D	Grey SILTSTONE core	Axial	100.00	52.00	4.40	81.37	0.66	1.24	0.83	
BH102	19	8.14	-	D	Grey SILTSTONE core	Axial	100.00	37.00	3.75	68.64	0.80	1.15	0.92	
BH102	19	8.14	-	D	Grey SILTSTONE core	Axial	100.00	32.00	2.48	63.83	0.61	1.12	0.68	
BH104	16	8.67	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	0.48	112.84	0.04	1.44	0.05	
BH104	16	8.67	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	0.70	112.84	0.05	1.44	0.08	
BH104	16	8.67	-	D	Grey SILTSTONE core	Irregular lump	78.00	70.00	1.05	83.38	0.15	1.26	0.19	
BH104	16	8.67	-	D	Grey SILTSTONE core	Axial	100.00	50.00	0.85	79.79	0.13	1.23	0.16	
BH104	16	8.67	-	D	Grey SILTSTONE core	Irregular lump	67.00	57.00	1.60	69.73	0.33	1.16	0.38	
BH103	11	9.82	-	B	Grey SILTSTONE core	Diametral	100.00	100.00	2.72	112.84	0.21	1.44	0.31	
BH103	11	9.82	-	B	Grey SILTSTONE core	Diametral	100.00	100.00	2.11	112.84	0.17	1.44	0.24	
BH103	11	9.82	-	B	Grey SILTSTONE core	Axial	100.00	52.00	4.70	81.37	0.71	1.24	0.88	
Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength						Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com							Checked and Approved Initials: J.P Date: 03/08/2022	
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)													MSF-5-R33	

					Summary of Point Load Test Results									
Job No.		Project Name										Programme		
31873		North Horsham II										Samples received	17/05/2022	
												Schedule received	16/05/2022	
Project No.		Client										Project started		
GE20724		GESL										Date started		
												17/05/2022		
												01/08/2022		
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks
	Ref	Top m	Base m	Type										
BH103	11	9.82	-	B	Grey SILTSTONE core	Axial	100.00	51.00	3.78	80.58	0.58	1.24	0.72	
BH103	11	9.82	-	B	Grey SILTSTONE core	Irregular lump	53.00	53.00	1.90	59.80	0.53	1.08	0.58	
BH101	18	10.22	-	B	Grey mottled brown MUDSTONE core	Diametral	100.00	100.00	0.39	112.84	0.03	1.44	0.04	
BH101	18	10.22	-	B	Grey mottled brown MUDSTONE core	Diametral	100.00	100.00	0.20	112.84	0.02	1.44	0.02	
BH101	18	10.22	-	B	Grey mottled brown MUDSTONE core	Diametral	100.00	100.00	0.30	112.84	0.02	1.44	0.03	
BH101	18	10.22	-	B	Grey mottled brown MUDSTONE core	Axial	100.00	40.00	0.30	71.36	0.06	1.17	0.07	
BH101	18	10.22	-	B	Grey mottled brown MUDSTONE core	Axial	100.00	35.00	1.65	66.76	0.37	1.14	0.42	
BH102	24	10.67	-	D	Grey slightly fissured SILTSTONE core	Diametral	100.00	100.00	0.35	112.84	0.03	1.44	0.04	
BH102	24	10.67	-	D	Grey slightly fissured SILTSTONE core	Diametral	100.00	100.00	0.59	112.84	0.05	1.44	0.07	
BH102	24	10.67	-	D	Grey slightly fissured SILTSTONE core	Irregular lump	58.00	54.00	1.00	63.15	0.25	1.11	0.28	
BH102	24	10.67	-	D	Grey slightly fissured SILTSTONE core	Irregular lump	69.00	29.00	0.78	50.48	0.31	1.00	0.31	
Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength						Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com							Checked and Approved Initials: J.P Date: 03/08/2022	
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)													MSF-5-R33	

					Summary of Point Load Test Results									
Job No.		Project Name										Programme		
31873		North Horsham II										Samples received	17/05/2022	
												Schedule received	16/05/2022	
Project No.		Client										Project started		
GE20724		GESL										Date started		
												17/05/2022		
												01/08/2022		
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks
	Ref	Top m	Base m	Type										
BH102	24	10.67	-	D	Grey slightly fissured SILTSTONE core	Irregular lump	53.00	49.00	0.72	57.50	0.22	1.06	0.23	
BH101	21	11.85	-	D	Light grey SILTSTONE (LIMESTONE) core	Diametral	100.00	100.00	6.30	112.84	0.49	1.44	0.71	
BH101	21	11.85	-	D	Light grey SILTSTONE (LIMESTONE) core	Diametral	100.00	100.00	7.00	112.84	0.55	1.44	0.79	
BH101	21	11.85	-	D	Light grey SILTSTONE (LIMESTONE) core	Diametral	100.00	100.00	9.10	112.84	0.71	1.44	1.03	
BH101	21	11.85	-	D	Light grey SILTSTONE (LIMESTONE) core	Axial	100.00	55.00	13.20	83.68	1.88	1.26	2.38	
BH101	21	11.85	-	D	Light grey SILTSTONE (LIMESTONE) core	Irregular lump	70.00	30.00	5.20	51.71	1.94	1.02	1.97	
BH102	27	12.51	-	D	Grey LIMESTONE core	Diametral	100.00	100.00	4.70	112.84	0.37	1.44	0.53	
BH102	27	12.51	-	D	Grey LIMESTONE core	Diametral	100.00	100.00	6.00	112.84	0.47	1.44	0.68	
BH102	27	12.51	-	D	Grey LIMESTONE core	Axial	100.00	49.00	8.00	78.99	1.28	1.23	1.58	
BH102	27	12.51	-	D	Grey LIMESTONE core	Axial	100.00	39.00	5.20	70.47	1.05	1.17	1.22	
BH102	27	12.51	-	D	Grey LIMESTONE core	Axial	100.00	30.00	2.40	61.80	0.63	1.10	0.69	
Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength						Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com							Checked and Approved Initials: J.P Date: 03/08/2022	
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)													MSF-5-R33	

		Summary of Point Load Test Results												
Job No. 31873		Project Name North Horsham II										Programme		
												Samples received	17/05/2022	
												Schedule received	16/05/2022	
Project No. GE20724		Client GESL										Project started	17/05/2022	
												Date started	01/08/2022	
Hole No.	Sample				Description	Test Type	Sample Width W (mm)	Platen Separation D (mm)	Failure Load P (kN)	Equivalent Diameter De (mm)	P/De2 (Mpa)	Correction Factor F	Is (50)	Remarks
	Ref	Top m	Base m	Type										
BH104	27	15.19	-	D	Grey SILTSTONE core	Diametral	100.00	100.00	2.20	112.84	0.17	1.44	0.25	
BH104	27	15.19	-	D	Grey SILTSTONE core	Axial	100.00	42.00	2.01	73.13	0.38	1.19	0.45	
BH104	27	15.19	-	D	Grey SILTSTONE core	Axial	100.00	24.00	2.10	55.28	0.69	1.05	0.72	
BH104	27	15.19	-	D	Grey SILTSTONE core	Irregular lump	48.00	48.00	1.95	54.16	0.66	1.04	0.69	
BH104	27	15.19	-	D	Grey SILTSTONE core	Irregular lump	50.00	29.00	1.82	42.97	0.99	0.93	0.92	
BH103	20	15.26	-	B	Grey SILTSTONE core	Diametral	100.00	100.00	2.90	112.84	0.23	1.44	0.33	
BH103	20	15.26	-	B	Grey SILTSTONE core	Diametral	100.00	100.00	3.25	112.84	0.26	1.44	0.37	
BH103	20	15.26	-	B	Grey SILTSTONE core	Diametral	100.00	100.00	3.20	112.84	0.25	1.44	0.36	
BH103	20	15.26	-	B	Grey SILTSTONE core	Axial	100.00	43.00	3.18	73.99	0.58	1.19	0.69	
BH103	20	15.26	-	B	Grey SILTSTONE core	Axial	100.00	46.00	2.90	76.53	0.50	1.21	0.60	
Tested in accordance with ISRM 325-89 RTH Suggested Method for Determining Point Load Strength						Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com							Checked and Approved Initials J.P Date: 03/08/2022	
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)													MSF-5-R33	

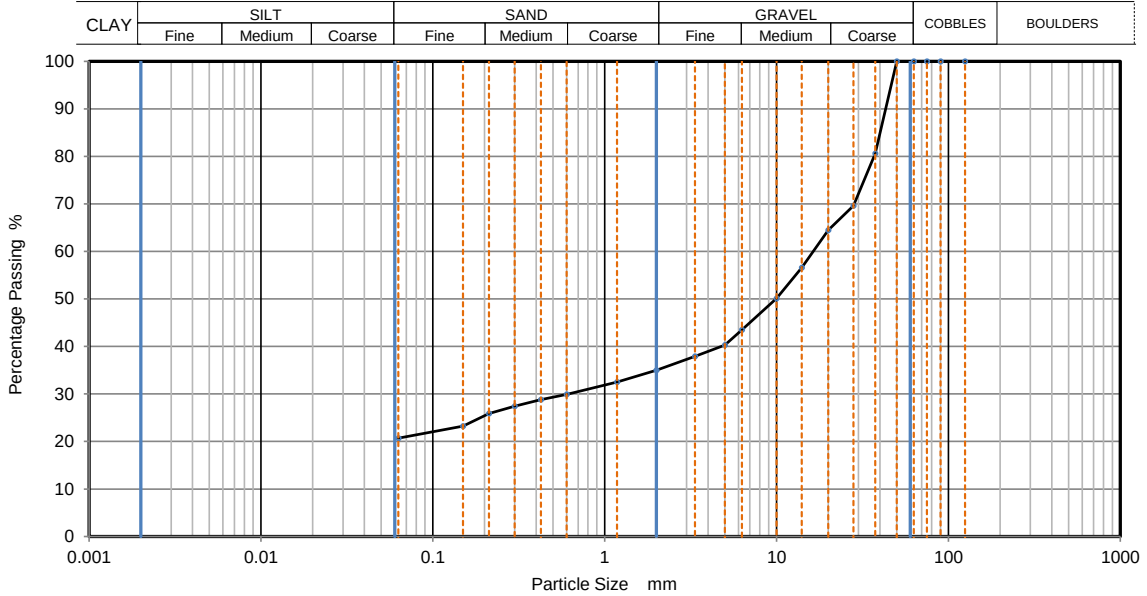


PARTICLE SIZE DISTRIBUTION

Job Ref	31873
Borehole/Pit No.	TP11
Sample No.	5
Depth Top	2.50 m
Depth Base	- m
Sample Type	D
Samples received	17/05/22 - 17/06/22
Schedules received	16/05/2022
Project started	17/05/2022
Date tested	23/06/2022

Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Brown silty clayey sandy GRAVEL (gravel is fmc and sub-angular mudstone fragments)		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	81		
28	70		
20	65		
14	57		
10	50		
6.3	44		
5	40		
3.35	38		
2	35		
1.18	33		
0.6	30		
0.425	29		
0.3	27		
0.212	26		
0.15	23		
0.063	21		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	65.0
Sand	14.3
Fines <0.063mm	20.7

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved

Initials: J.P
Date: 01/08/2022

2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

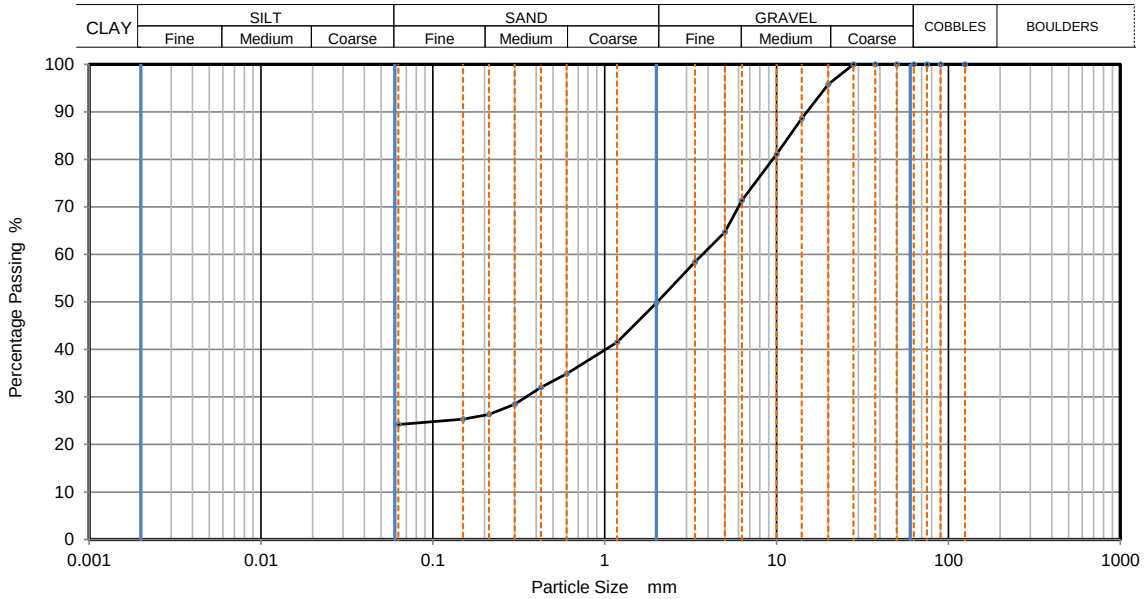
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	TP27
Site Name	North Horsham II			Sample No.	3
Project No.	GE20724	Client	GESL	Depth Top	1.50 m
Soil Description	Brown and light brown silty clayey very sandy GRAVEL (gravel is fmc siltstone fragments)			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	29/07/2022

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	89		
10	81		
6.3	71		
5	65		
3.35	58		
2	50		
1.18	42		
0.6	35		
0.425	32		
0.3	29		
0.212	26		
0.15	25		
0.063	24		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	50.2
Sand	25.6
Fines <0.063mm	24.2

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

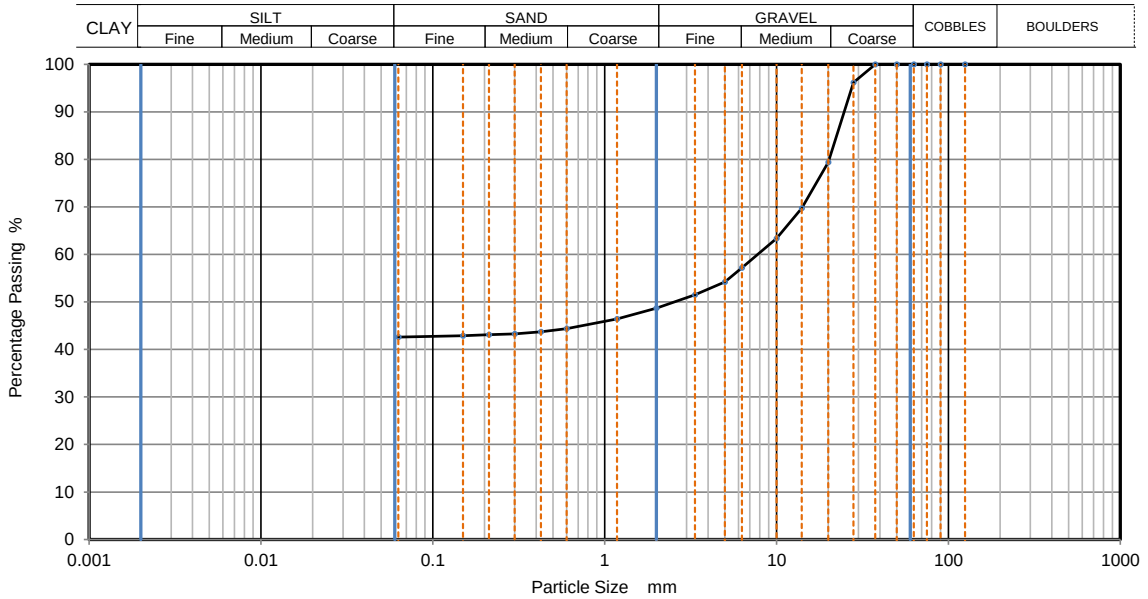
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873	
				Borehole/Pit No.	TP36	
Site Name	North Horsham II			Sample No.	10	
Project No.	GE20724	Client	GESL	Depth Top	1.50	m
Soil Description	Brown slightly sandy silty CLAY with occasional fmc shale fragments			Depth Base	-	m
				Sample Type	ES	
				Samples received	17/05/22 - 17/06/22	
				Schedules received	16/05/2022	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022	
These results only apply to the items tested				Date tested	29/07/2022	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	96		
20	79		
14	70		
10	63		
6.3	57		
5	54		
3.35	52		
2	49		
1.18	46		
0.6	44		
0.425	44		
0.3	43		
0.212	43		
0.15	43		
0.063	43		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	51.3
Sand	6.2
Fines <0.063mm	42.6

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

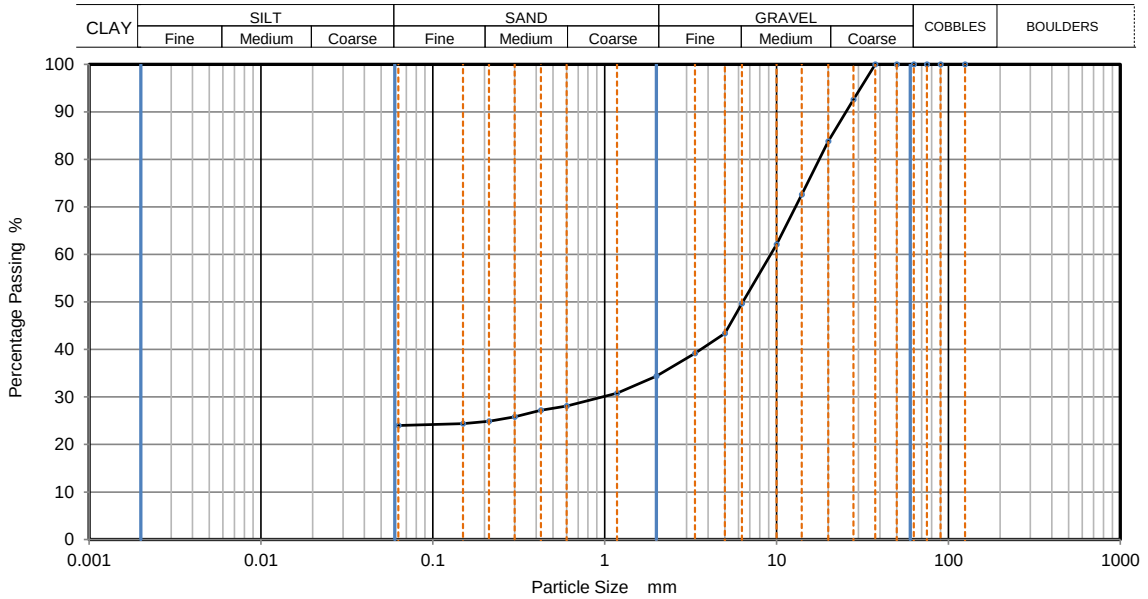
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	TP38
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top	2.00 m
Soil Description	Orangish brown sandy silty clayey GRAVEL (gravel is fmc shale fragments)			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	29/07/2022

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	84		
14	73		
10	62		
6.3	50		
5	43		
3.35	39		
2	34		
1.18	31		
0.6	28		
0.425	27		
0.3	26		
0.212	25		
0.15	24		
0.063	24		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	65.6
Sand	10.3
Fines <0.063mm	24.0

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

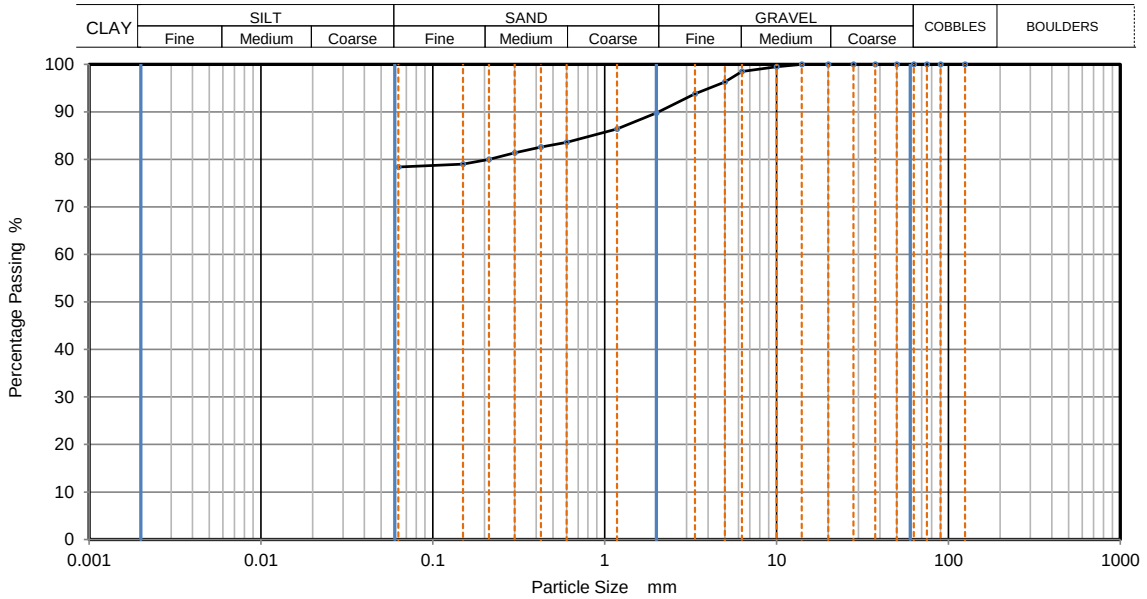


PARTICLE SIZE DISTRIBUTION

Job Ref	31873
Borehole/Pit No.	TP46
Sample No.	2
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	17/05/22 - 17/06/22
Schedules received	16/05/2022
Project started	17/05/2022
Date tested	29/07/2022

Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Orangish brown, bluish grey and yellowish brown slightly gravelly slightly sandy silty CLAY with traces of rootlets (gravel is fm mudstone fragments)		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	96		
3.35	94		
2	90		
1.18	86		
0.6	84		
0.425	83		
0.3	81		
0.212	80		
0.15	79		
0.063	78		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	10.2
Sand	11.3
Fines <0.063mm	78.4

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

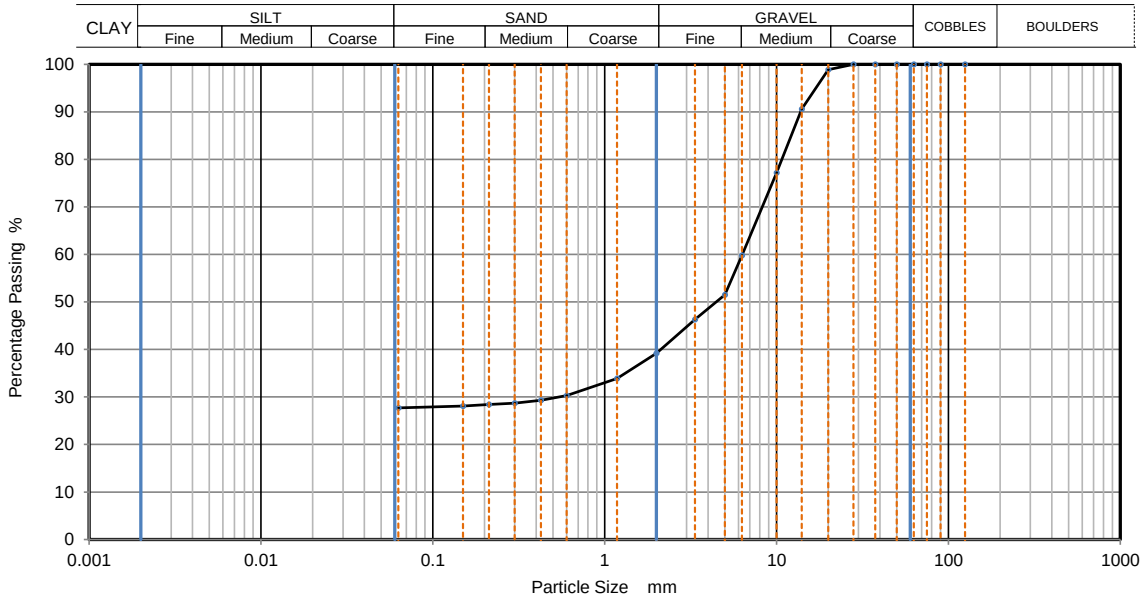
NOTE: The report shall not be reproduced except in full without approval of the laboratory

	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288	Checked and Approved Initials: J.P Date: 01/08/2022
	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)	MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	TP50
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top	2.00 m
Soil Description	Brown sandy silty clayey GRAVEL with dark grey stains (gravel is fmc shale fragments)			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	29/07/2022



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	91		
10	77		
6.3	60		
5	52		
3.35	46		
2	39		
1.18	34		
0.6	30		
0.425	29		
0.3	29		
0.212	28		
0.15	28		
0.063	28		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	60.8
Sand	11.5
Fines <0.063mm	27.7

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved

Initials: J.P
Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

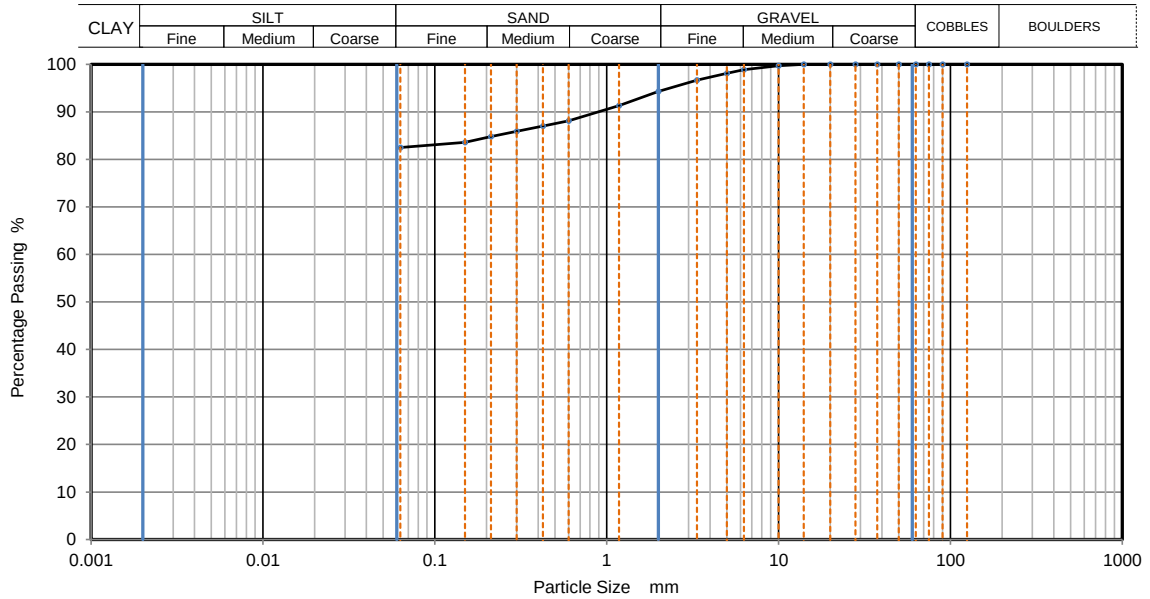


PARTICLE SIZE DISTRIBUTION

Job Ref	31873
Borehole/Pit No.	WS03
Sample No.	7
Depth Top	2.00 m
Depth Base	- m
Sample Type	D
Samples received	17/05/22 - 17/06/22
Schedules received	16/05/2022
Project started	17/05/2022
Date tested	23/06/2022

Site Name	North Horsham II		
Project No.	GE20724	Client	GESL
Soil Description	Light greyish brown slightly gravelly slightly sandy silty CLAY (gravel is fm and sub-angular mudstone fragments)		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	98		
3.35	97		
2	94		
1.18	91		
0.6	88		
0.425	87		
0.3	86		
0.212	85		
0.15	84		
0.063	83		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	5.7
Sand	11.8
Fines <0.063mm	82.5

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory
Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved
Initials: J.P
Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

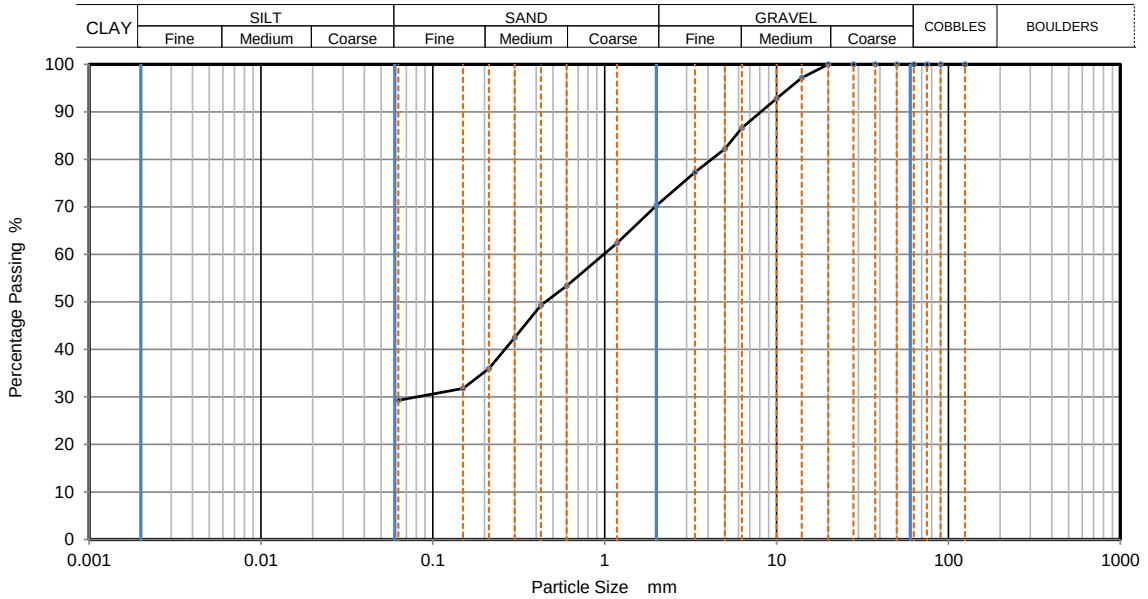
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	WS14
Site Name	North Horsham II			Sample No.	7
Project No.	GE20724	Client	GESL	Depth Top	2.50 m
Soil Description	Brown silty clayey very gravelly SAND with dark grey stains (gravel is fm siltstone fragments)			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	29/07/2022

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	97		
10	93		
6.3	87		
5	82		
3.35	77		
2	70		
1.18	62		
0.6	53		
0.425	49		
0.3	43		
0.212	36		
0.15	32		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	29.7
Sand	41.0
Fines <0.063mm	29.3

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory

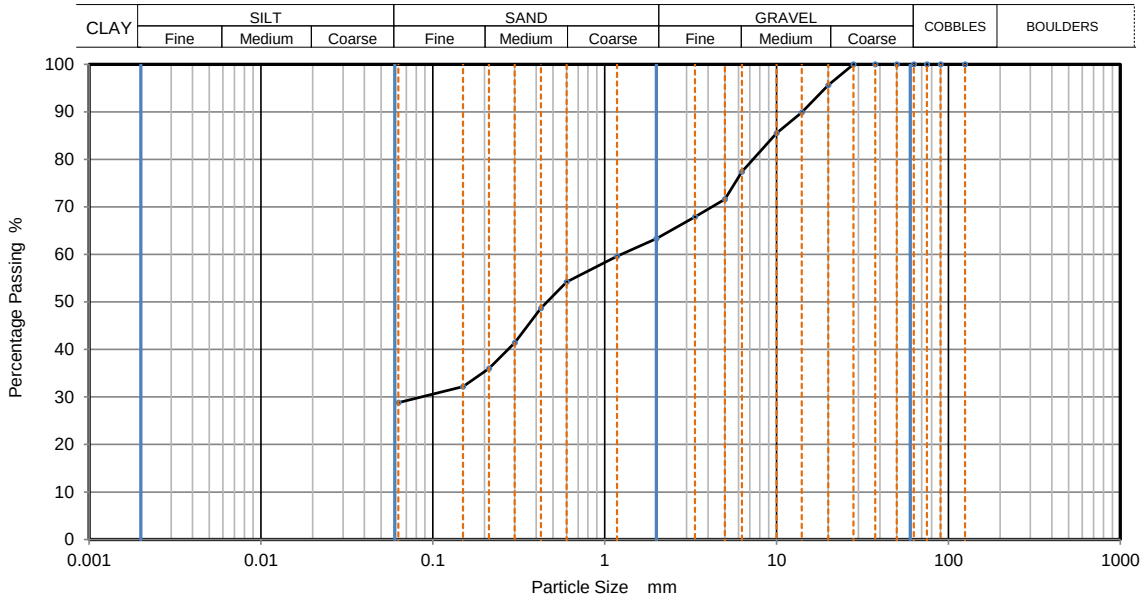
	K4 Soils Laboratory		Checked and Approved	
	Unit 8, Olds Close, Watford, Herts, WD18 9RU		Initials:	J.P
	Email: james@k4soils.com		Date:	01/08/2022
	Tel: 01923 711288			
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)			MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	WS32
Site Name	North Horsham II			Sample No.	4
Project No.	GE20724	Client	GESL	Depth Top	1.00 m
Soil Description	Reddish brown and bluish grey silty clayey very sandy GRAVEL (gravel is fmc sub-angular to sub-rounded mudstone fragments)			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	23/06/2022

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	90		
10	86		
6.3	77		
5	72		
3.35	68		
2	63		
1.18	60		
0.6	54		
0.425	49		
0.3	41		
0.212	36		
0.15	32		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	36.7
Sand	34.5
Fines <0.063mm	28.8

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

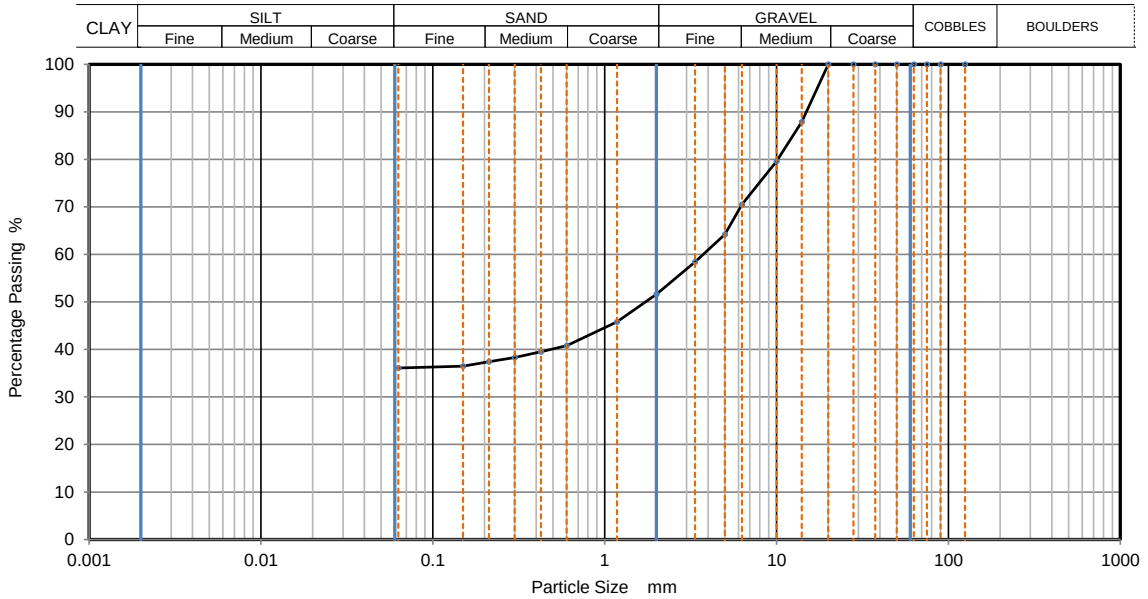
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	31873
				Borehole/Pit No.	WS55
Site Name	North Horsham II			Sample No.	6
Project No.	GE20724	Client	GESL	Depth Top	1.50 m
Soil Description	Grey and brown slightly sandy laminated silty CLAY with numerous fm mudstone fragments			Depth Base	- m
				Sample Type	D
				Samples received	17/05/22 - 17/06/22
				Schedules received	16/05/2022
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/05/2022
These results only apply to the items tested				Date tested	25/07/2022

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	88		
10	80		
6.3	71		
5	64		
3.35	58		
2	52		
1.18	46		
0.6	41		
0.425	40		
0.3	38		
0.212	37		
0.15	37		
0.063	36		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	48.4
Sand	15.5
Fines <0.063mm	36.1

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory



K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 01/08/2022

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

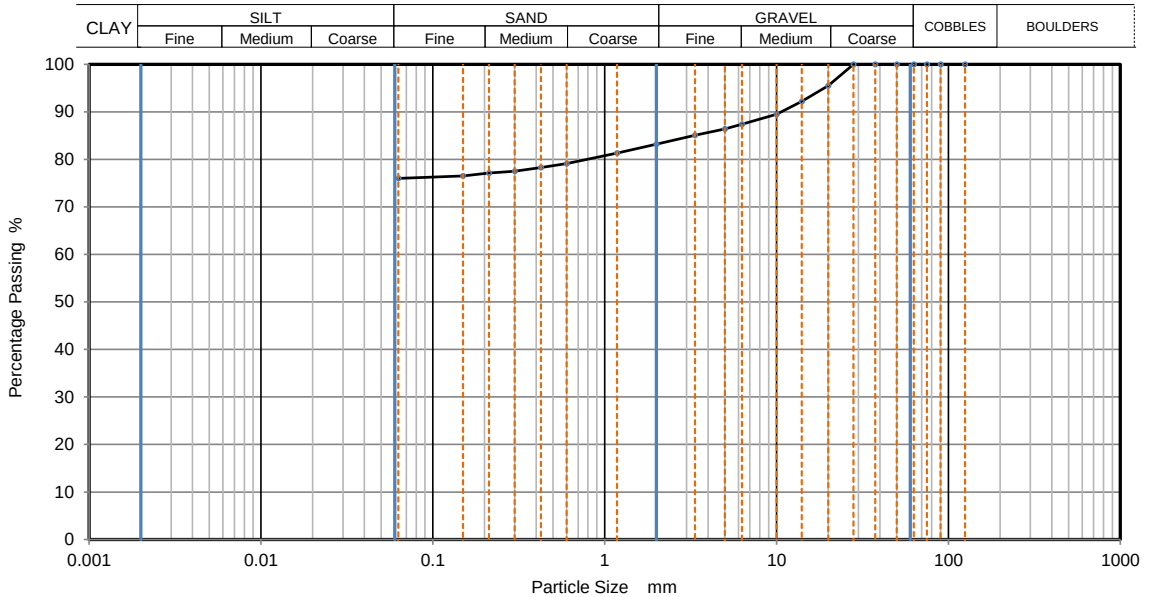
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

Job Ref	31873		
	Borehole/Pit No.		
Sample No.		5	
Depth Top		1.50 m	
Depth Base		- m	
Sample Type		D	
Samples received		17/05/22 - 17/06/22	
Schedules received		16/05/2022	
Project started		17/05/2022	
Date tested		23/06/2022	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	92		
10	90		
6.3	87		
5	86		
3.35	85		
2	83		
1.18	81		
0.6	79		
0.425	78		
0.3	78		
0.212	77		
0.15	77		
0.063	76		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	16.8
Sand	7.3
Fines <0.063mm	76.0

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

NOTE: The report shall not be reproduced except in full without approval of the laboratory

	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288		Checked and Approved Initials: J.P Date: 01/08/2022	
	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3	



UNIAXIAL COMPRESSION TEST ON ROCK - SUMMARY OF RESULTS

Project No. 31873	Project Name North Horsham II													
Client ID	Client													
GE20724	GESL													
Test Method	International Society for Rock Mechanics, The complete ISRM suggested test method for Rock Characterization Testing and Monitoring 2007													
Hole No.	Sample				Description	Specimen Dimensions			Bulk Density Mg/m ³	Water Content %	Uniaxial Compression			Remarks
	Ref	Top m	Base m	Type		Dia. mm	Length mm	H/D			Condition	Mode of failure	UCS MPa	
BH101	10	4.79	-	B	Grey MUDSTONE core	100.0	120.0	1.2	2.45	13	as received	F	0.54	
BH101	14	7.02	-	B	Grey MUDSTONE core	100.0	160.0	1.6	2.34	9.0	as received	F	0.69	
BH104	14	8.00	-	B	Grey SILTSTONE core	100.0	250.0	2.5	2.43	8.3	as received	F	15	
BH103	14	10.81	-	B	Grey SILTSTONE core	100.0	258.0	2.6	2.41	6.8	as received	F	6.2	
BH101	20	10.99	-	B	Grey MUDSTONE core	100.0	170.0	1.7	2.40	9.2	as received	F	1.1	
BH104	21	11.47	-	B	Grey SILTSTONE core	100.0	259.0	2.6	2.38	7.5	as received	F	4.1	
BH104	25	13.25	-	B	Grey SILTSTONE core	100.0	235.0	2.4	2.46	7.9	as received	F	5.5	
BH103	18	14.20	-	B	Grey SILTSTONE core	100.0	256.0	2.6	2.44	6.7	as received	F	16	
BH102	31	14.71	-	B	Grey SILTSTONE core	100.0	165.0	1.7	2.46	9.3	as received	F	33	
Notes 1 ISRM p87 test 1, water content at 105 ± 3 °C, specimen as tested for UCS 2 ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density 3 ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials above notes apply unless annotated otherwise in the remarks Mode of failure : S - Single MS - multiple shear AC - Axia F - Fragmented														
K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: james@K4soils.com												Checked and Approved Initials: J.P Date: 03/08/2022		

The background of the page features a series of overlapping, wavy blue shapes that create a sense of movement and depth. These shapes are in various shades of blue, ranging from a light, airy blue to a more saturated, medium blue. They are positioned primarily on the right side of the page, with some extending towards the center.

Appendix D

Chemical Test Results & HazWaste Online Results



2683



THE ENVIRONMENT AGENCY'S
MONITORING CERTIFICATION SCHEME

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40391

Issue: 1

Date of Issue: 16/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 06/05/2022

Date Approved: 16/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full

Sample Summary

Report No.: 22-40391, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
277910	WS04 0.10	04/05/2022	06/05/2022	Silty loam	
277911	WS05 0.20	04/05/2022	06/05/2022	Silty loam	
277912	WS27 0.10	05/05/2022	06/05/2022	Silty loam	
277913	WS36 0.10	05/05/2022	06/05/2022	Silty loam	
277914	WS39 0.60	05/05/2022	06/05/2022	Silty loam	
277915	WS40 0.10	05/05/2022	06/05/2022	Silty loam	
277916	WS33 0.30	05/05/2022	06/05/2022	Silty clayey loam	
277917	WS75 0.20	04/05/2022	06/05/2022	Silty clayey loam	
277918	WS77 0.40	04/05/2022	06/05/2022	Silty clayey loam	
277919	WS81 0.20	04/05/2022	06/05/2022	Clayey loam	
277920	WS81 1.90	04/05/2022	06/05/2022	Silty clayey loam	
277921	WS27 2.40	05/05/2022	06/05/2022	Clayey loam	
277922	WS04 2.10	04/05/2022	06/05/2022	Clayey loam	
277923	WS04 0.60	04/05/2022	06/05/2022		
277924	WS05 0.60	04/05/2022	06/05/2022		
277925	WS05 1.90	04/05/2022	06/05/2022		
277926	WS27 0.70	05/05/2022	06/05/2022		
277927	WS33 0.80	05/05/2022	06/05/2022		
277928	WS33 2.90	05/05/2022	06/05/2022		
277929	WS36 0.60	05/05/2022	06/05/2022		
277930	WS36 2.10	05/05/2022	06/05/2022		
277931	WS39 0.05	05/05/2022	06/05/2022		
277932	WS39 1.60	05/05/2022	06/05/2022		
277933	WS40 0.40	05/05/2022	06/05/2022		
277934	WS40 1.10	05/05/2022	06/05/2022		
277935	WS75 0.80	04/05/2022	06/05/2022		
277936	WS75 1.60	04/05/2022	06/05/2022		
277937	WS77 0.10	04/05/2022	06/05/2022		
277938	WS77 1.20	04/05/2022	06/05/2022		
277939	WS81 0.70	04/05/2022	06/05/2022		

Results Summary

Report No.: 22-40391, issue number 1

ELAB Reference	277910	277911	277912	277913	277914	277915	277916
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS04	WS05	WS27	WS36	WS39	WS40	WS33
Sample Depth (m)	0.10	0.20	0.10	0.10	0.60	0.10	0.30
Sampling Date	04/05/2022	04/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022

Determinand	Codes	Units	LOD							
Soil sample preparation parameters										
Moisture Content	N	%	0.1	11.4	14.0	11.7	15.5	13.9	13.7	12.9
Material removed	N	%	0.1	17.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	None	None	None	None	None	None
Metals										
Arsenic	M	mg/kg	1	8.4	9.1	4.3	6.3	5.4	5.6	5.2
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	26.0	22.7	14.9	17.5	18.5	15.6	12.9
Copper	M	mg/kg	5	20.7	11.9	9.6	19.9	20.8	14.1	6.1
Lead	M	mg/kg	5	42.5	24.4	27.6	42.8	23.7	58.1	20.0
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	18.8	16.5	7.4	9.6	9.3	7.5	5.5
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	34.4	28.3	19.8	21.8	26.0	21.2	17.5
Zinc	M	mg/kg	5	70.9	56.3	43.1	82.7	48.5	42.8	29.7
Anions										
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Sulphate	M	g/l	0.02	0.30	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Inorganics										
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.11	0.03	0.04	0.03	0.03	0.04	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Miscellaneous										
pH	M	pH units	0.1	7.9	7.5	6.2	6.9	7.7	8.0	7.8
Total Organic Carbon	N	%	0.01	1.2	0.95	1.6	0.91	1.0	1.6	0.85
Phenols										
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons										
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	1.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	1.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	8.6	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4

Results Summary

Report No.: 22-40391, issue number 1

ELAB Reference				277910	277911	277912	277913	277914	277915	277916
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS04	WS05	WS27	WS36	WS39	WS40	WS33
Sample Depth (m)				0.10	0.20	0.10	0.10	0.60	0.10	0.30
Sampling Date				04/05/2022	04/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022
Determinand	Codes	Units	LOD							
BTEX										
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG										
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	6.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	7.5	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	13.6	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	18.2	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	25.7	< 1.0	< 1.0	< 1.0	< 1.0	5.3	< 1.0
OrganoChlorine Pesticides										
alpha-HCH	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
beta_HCH	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
gamma-HCH	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
delta-HCH	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Heptachlor	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Aldrin	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
trans-Chlordane	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
p,p-DDE	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Dieldrin	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Endrin	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
p,p-DDD	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Endosulfan II	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Endrin aldehyde	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
p,p-DDT	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Methoxychlor	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t
Endrin ketone	N	ug/kg	10	n/t	< 10	< 10	n/t	n/t	< 10	n/t

Results Summary

Report No.: 22-40391, issue number 1

ELAB Reference				277917	277918	277919	277920	277921	277922
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS75	WS77	WS81	WS81	WS27	WS04
Sample Depth (m)				0.20	0.40	0.20	1.90	2.40	2.10
Sampling Date				04/05/2022	04/05/2022	04/05/2022	04/05/2022	05/05/2022	04/05/2022
Determinand	Codes	Units	LOD						
Soil sample preparation parameters									
Moisture Content	N	%	0.1	14.4	12.5	15.3	9.9	11.9	12.1
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	18.6	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	Stones	None	None
Metals									
Arsenic	M	mg/kg	1	10.5	11.4	9.7	n/t	n/t	n/t
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	29.1	30.4	31.0	n/t	n/t	n/t
Copper	M	mg/kg	5	14.2	14.9	14.9	n/t	n/t	n/t
Lead	M	mg/kg	5	16.5	16.2	17.2	n/t	n/t	n/t
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	< 0.01	< 0.01	< 0.01
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	14.1	16.6	13.0	n/t	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Vanadium	M	mg/kg	5	36.8	36.9	37.7	n/t	n/t	n/t
Zinc	M	mg/kg	5	47.6	45.1	42.5	n/t	n/t	n/t
Anions									
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	< 20	< 20	< 20
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	n/t	n/t	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	< 20	< 20	< 20
Water Soluble Sulphate	M	g/l	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Inorganics									
Elemental Sulphur	M	mg/kg	20	< 20	< 20	23	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	n/t	n/t	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	0.02	0.03	0.02
Acid Soluble Sulphate (SO4)	U	%	0.02	0.02	< 0.02	< 0.02	0.02	< 0.02	0.03
Water Soluble Boron	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t
Miscellaneous									
pH	M	pH units	0.1	7.9	7.9	7.9	6.9	5.9	6.2
Total Organic Carbon	N	%	0.01	0.37	0.21	0.21	n/t	n/t	n/t
Phenols									
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	n/t	n/t	n/t
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	n/t	n/t	n/t

Results Summary

Report No.: 22-40391, issue number 1

ELAB Reference				277917	277918	277919	277920	277921	277922
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS75	WS77	WS81	WS81	WS27	WS04
Sample Depth (m)				0.20	0.40	0.20	1.90	2.40	2.10
Sampling Date				04/05/2022	04/05/2022	04/05/2022	04/05/2022	05/05/2022	04/05/2022
Determinand	Codes	Units	LOD						
BTEX									
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
TPH CWG									
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
OrganoChlorine Pesticides									
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40391, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
277910	0.10	WS04	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
277911	0.20	WS05	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277912	0.10	WS27	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277913	0.10	WS36	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277914	0.60	WS39	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277915	0.10	WS40	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277916	0.30	WS33	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277917	0.20	WS75	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277918	0.40	WS77	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
277919	0.20	WS81	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40391, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	10/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	10/05/2022	110	Colorimetry
pH	M	Air dried sample	12/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	12/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	11/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	13/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	10/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	11/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	10/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	11/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	10/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	12/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	12/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	12/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	11/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	11/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	11/05/2022	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	09/05/2022	271	
Asbestos identification	U	Air dried sample	13/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40391, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40474

Issue: 1

Date of Issue: 18/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 10/05/2022

Date Approved: 18/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full

Sample Summary

Report No.: 22-40474, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
278334	WS01 0.10	06/05/2022	11/05/2022	Silty loam	
278335	WS03 0.40	06/05/2022	11/05/2022	Sandy clayey loam	
278336	WS12 0.10	09/05/2022	11/05/2022	Silty loam	
278337	WS20 0.10	06/05/2022	11/05/2022	Silty loam	
278338	WS26 0.10	06/05/2022	11/05/2022	Silty loam	
278339	WS31 0.70	09/05/2022	11/05/2022	Sandy silty loam	
278340	WS32 0.20	09/05/2022	11/05/2022	Silty loam	
278341	WS32 2.20	09/05/2022	11/05/2022	Silty clayey loam	
278342	WS35 0.10	09/05/2022	11/05/2022	Silty loam	
278343	WS37 0.10	09/05/2022	11/05/2022	Silty loam	
278344	WS76 0.60	06/05/2022	11/05/2022	Silty loam	
278345	WS76 1.90	06/05/2022	11/05/2022	Silty clayey loam	
278346	WS92 0.20	06/05/2022	11/05/2022	Silty loam	
278347	WS93 0.10	09/05/2022	11/05/2022	Silty loam	
278348	WS93 1.80	09/05/2022	11/05/2022	Silty clayey loam	
278349	TP22 2.00	06/05/2022	11/05/2022	Silty loam	
278350	TP26 2.50	06/05/2022	11/05/2022	Silty loam	
278351	TP12 0.20	09/05/2022	11/05/2022		
278352	TP12 2.50	09/05/2022	11/05/2022		
278353	TP12 3.00	09/05/2022	11/05/2022		
278354	TP13 0.10	09/05/2022	11/05/2022		
278355	TP13 1.00	09/05/2022	11/05/2022		
278356	TP13 3.00	09/05/2022	11/05/2022		
278357	TP21 0.30	06/05/2022	11/05/2022		
278358	TP21 1.00	06/05/2022	11/05/2022		
278359	TP21 1.70	06/05/2022	11/05/2022		
278360	TP22 0.10	09/05/2022	11/05/2022		
278361	TP22 2.20	09/05/2022	11/05/2022		
278362	TP25 0.30	09/05/2022	11/05/2022		
278363	TP25 1.00	09/05/2022	11/05/2022		
278364	TP25 1.00	09/05/2022	11/05/2022		
278365	TP26 0.20	06/05/2022	11/05/2022		
278366	TP26 2.80	06/05/2022	11/05/2022		
278367	TP30 0.20	06/05/2022	11/05/2022		
278368	TP30 1.00	06/05/2022	11/05/2022		
278369	TP30 1.50	06/05/2022	11/05/2022		
278370	TP31 0.20	06/05/2022	11/05/2022		
278371	TP31 1.00	06/05/2022	11/05/2022		
278372	TP31 1.00	06/05/2022	11/05/2022		
278373	TP68 0.20	09/05/2022	11/05/2022		
278374	TP68 1.50	09/05/2022	11/05/2022		
278375	TP68 1.80	09/05/2022	11/05/2022		
278376	TP71 0.10	06/05/2022	11/05/2022		
278377	TP71 2.00	06/05/2022	11/05/2022		
278378	TP71 2.20	06/05/2022	11/05/2022		
278379	WS01 0.70	06/05/2022	11/05/2022		
278380	WS01 1.20	06/05/2022	11/05/2022		
278381	WS03 0.10	06/05/2022	11/05/2022		
278382	WS03 1.60	06/05/2022	11/05/2022		
278383	WS12 0.70	09/05/2022	11/05/2022		
278384	WS12 2.70	09/05/2022	11/05/2022		
278385	WS20 0.70	06/05/2022	11/05/2022		
278386	WS20 1.40	06/05/2022	11/05/2022		
278387	WS26 0.40	06/05/2022	11/05/2022		
278388	WS26 2.20	06/05/2022	11/05/2022		
278389	WS31 0.10	09/05/2022	11/05/2022		
278390	WS31 1.60	09/05/2022	11/05/2022		
278391	WS32 0.60	09/05/2022	11/05/2022		
278392	WS35 0.40	09/05/2022	11/05/2022		
278393	WS35 1.80	09/05/2022	11/05/2022		
278394	WS37 0.50	09/05/2022	11/05/2022		
278395	WS37 1.20	09/05/2022	11/05/2022		
278396	WS76 0.20	06/05/2022	11/05/2022		
278397	WS92 0.60	06/05/2022	11/05/2022		



Sample Summary

Report No.: 22-40474, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
278398	WS92 1.20	06/05/2022	11/05/2022		
278399	WS93 0.80	09/05/2022	11/05/2022		

Results Summary

Report No.: 22-40474, issue number 1

ELAB Reference	278334	278335	278336	278337	278338	278339	278340	278341	278342	278343	278344	278345	278346	278347	278348	278349	278350
Customer Reference																	
Sample ID																	
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS03	WS12	WS20	WS26	WS31	WS32	WS35	WS37	WS76	WS76	WS92	WS93	WS93	TP22	TP26	
Sample Depth (m)	0.10	0.40	0.10	0.10	0.10	0.70	0.20	2.20	0.10	0.10	0.60	1.90	0.20	0.10	1.80	2.00	2.50
Sampling Date	06/05/2022	06/05/2022	09/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022
Determinand	Codes	Units	LOD														
Soil sample preparation parameters																	
Moisture Content	N	%	0.1	8.8	14.8	14.2	11.9	8.8	7.8	15.5	10.0	16.9	13.0	14.8	7.7	11.9	12.4
Material removed	N	%	0.1	9.4	< 0.1	< 0.1	5.1	9.7	9.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	None	None	Stones	Stones	Stones	None	None	None	None	None	None	None	None
Metals																	
Arsenic	M	mg/kg	1	11.2	8.0	7.0	8.4	8.3	18.6	5.9	n/t	9.7	9.0	11.7	n/t	16.4	7.4
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	n/t	< 1.0	1.1	1.1	n/t	1.1	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	< 0.5	0.6	< 0.5	n/t	< 0.5	< 0.5
Chromium	M	mg/kg	5	23.8	23.4	19.7	26.2	21.1	29.5	22.8	n/t	26.5	26.9	25.7	n/t	34.5	24.5
Copper	M	mg/kg	5	14.8	16.4	14.2	11.0	13.6	20.6	16.0	n/t	18.9	23.2	14.7	n/t	21.5	18.8
Lead	M	mg/kg	5	28.0	13.5	23.6	20.1	31.2	20.6	22.5	n/t	27.9	41.3	28.6	n/t	46.6	29.5
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	n/t	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5
Nickel	M	mg/kg	5	11.8	14.4	13.7	14.4	11.2	41.6	13.0	n/t	23.7	25.8	29.0	n/t	23.0	13.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	1.0	< 1.0
Vanadium	M	mg/kg	5	40.0	24.6	25.6	38.4	32.1	39.1	32.9	n/t	35.6	34.8	39.5	n/t	53.0	37.7
Zinc	M	mg/kg	5	50.4	36.2	58.7	59.7	56.0	81.7	52.4	n/t	78.7	104	76.8	n/t	93.3	63.6
Anions																	
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	n/t	n/t	n/t	< 20	n/t	n/t	< 20
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	n/t	< 40	< 40	< 40	n/t	< 40	< 40	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	n/t	n/t	n/t	< 20	n/t	n/t	< 20
Water Soluble Sulphate	M	g/l	0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	0.03	0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	0.02
Inorganics																	
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	n/t	< 20	< 20	< 20	n/t	< 20	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	n/t	< 2	< 2	< 2	n/t	< 2	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	n/t	n/t	n/t	n/t	n/t	0.02	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03	0.07	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.04	< 0.02	0.03	0.04	0.03
Water Soluble Boron	N	mg/kg	0.5	0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	0.7	n/t	0.6	1.1	0.6	n/t	0.9	n/t

ELAB Reference				278334	278335	278336	278337	278338	278339	278340	278341	278342	278343	278344	278345	278346	278347	278348	278349	278350
Customer Reference																				
Sample ID																				
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS01	WS03	WS12	WS20	WS26	WS31	WS32	WS35	WS37	WS76	WS76	WS92	WS93	WS93	TP22	TP26	TP26
Sample Depth (m)				0.10	0.40	0.10	0.10	0.10	0.70	0.20	2.20	0.10	0.10	0.60	1.90	0.20	0.10	1.80	2.00	2.50
Sampling Date				06/05/2022	06/05/2022	09/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022
Determinand	Codes	Units	LOD																	
Miscellaneous																				
pH	M	pH units	0.1	7.3	7.5	6.8	6.7	6.5	6.0	6.3	6.2	6.2	6.1	6.5	6.3	6.2	6.2	6.0	6.0	5.8
Total Organic Carbon	N	%	0.01	1.4	0.16	1.5	0.62	1.1	0.12	1.1	n/t	1.1	1.5	0.96	n/t	1.2	1.8	n/t	n/t	n/t
Organics																				
>C8-C10 BCB (EH_1D_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	n/t	n/t
>C10-C12 BCB (EH_1D_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	n/t	n/t
>C12-C16 BCB (EH_1D_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	n/t	n/t
>C16-C21 BCB (EH_1D_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	n/t	n/t
Diesel Range Organics (>C10-C25) (EH_1D_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	n/t	n/t
Petrol Range Organics (>C6-C10) (HS_1D_MS)	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	n/t	n/t	n/t
Phenols																				
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	n/t	< 6	< 6	< 6	n/t	< 6	< 6	n/t	n/t	n/t
Polyaromatic hydrocarbons																				
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	0.2	< 0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.3	< 0.1	n/t	0.1	< 0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	0.1	< 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	0.2	< 0.1	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	n/t	< 0.4	2.2	< 0.4	n/t	0.5	< 0.4	n/t	n/t	n/t

Results Summary
Report No.: 22-40474, issue number 1

ELAB Reference	278334	278335	278336	278337	278338	278339	278340	278341	278342	278343	278344	278345	278346	278347	278348	278349	278350
Customer Reference																	
Sample ID																	
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS03	WS12	WS20	WS26	WS31	WS32	WS35	WS37	WS37	WS37	WS76	WS92	WS93	WS93	TP22	TP26
Sample Depth (m)	0.10	0.40	0.10	0.10	0.10	0.70	0.20	2.20	0.10	0.10	0.60	1.90	0.20	0.10	1.80	2.00	2.50
Sampling Date	06/05/2022	06/05/2022	09/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022
Determinand	Codes	Units	LOD														
BTEX																	
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	n/t
TPH CWG																	
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.3	6.3	1.5	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	2.7	< 1.0	3.9	2.9	2.7	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	1.2	< 1.0	1.9	< 1.0	1.1	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	4.5	< 1.0	6.4	3.8	4.2	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Totals)	N	mg/kg	1	< 1.0	< 1.0	5.5	< 1.0	7.7	10.0	5.8	n/t	< 1.0	< 1.0	n/t	< 1.0	< 1.0	n/t

Results Summary

Report No.: 22-40474, issue number 1

ELAB Reference	278334	278335	278336	278337	278338	278339	278340	278341	278342	278343	278344	278345	278346	278347	278348	278349	278350
Customer Reference																	
Sample ID																	
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS03	WS12	WS20	WS26	WS31	WS32	WS32	WS35	WS37	WS76	WS76	WS92	WS93	WS93	TP22	TP26
Sample Depth (m)	0.10	0.40	0.10	0.10	0.10	0.70	0.20	2.20	0.10	0.10	0.60	1.90	0.20	0.10	1.80	2.00	2.50
Sampling Date	06/05/2022	06/05/2022	09/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022	06/05/2022	09/05/2022	09/05/2022	06/05/2022	06/05/2022
Determinand	Codes	Units	LOD														
OrganoChlorine Pesticides																	
alpha-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40474, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
278334	0.10	WS01	Brown Soil, Stones, Clinker, Plant Material	No asbestos detected	n/t	n/t	n/t	n/t
278335	0.40	WS03	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
278336	0.10	WS12	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
278337	0.10	WS20	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
278338	0.10	WS26	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
278339	0.70	WS31	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
278340	0.20	WS32	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
278342	0.10	WS35	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
278343	0.10	WS37	Brown Soil, Stones, Plant Material	No asbestos detected	n/t	n/t	n/t	n/t
278344	0.60	WS76	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
278346	0.20	WS92	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
278347	0.10	WS93	Brown Soil, Stones, Plant Material	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40474, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Petrol range organics in soil	N	As submitted sample	18/05/2022		GC-MS
Sulphide	N	As submitted sample	13/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	13/05/2022	110	Colorimetry
pH	M	Air dried sample	17/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	18/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	17/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	18/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	13/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	17/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	13/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	16/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	13/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	17/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	17/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	17/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	17/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	13/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	16/05/2022	210	IR
Basic carbon banding in soil	N	As submitted sample	13/05/2022	218	GC-FID
Diesel range organics in soil	N	As submitted sample	18/05/2022	257	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	11/05/2022	271	
Asbestos identification	U	Air dried sample	17/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40474, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40609

Issue: 1

Date of Issue: 23/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 16/05/2022

Date Approved: 23/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full

Sample Summary

Report No.: 22-40609, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
279275	WS14 0.10	13/05/2022	16/05/2022	Silty loam	
279276	WS15 0.70	13/05/2022	16/05/2022	Silty clayey loam	
279277	WS18 0.10	13/05/2022	16/05/2022	Silty loam	
279278	WS41 0.40	13/05/2022	16/05/2022	Silty clayey loam	
279279	WS47 0.10	13/05/2022	16/05/2022	Silty loam	
279280	WS48 0.60	13/05/2022	16/05/2022	Silty clayey loam	
279281	TP15 0.30	13/05/2022	16/05/2022	Silty loam	
279282	WS14 2.90	13/05/2022	16/05/2022	Silty loam	
279283	WS47 1.40	13/05/2022	16/05/2022	Silty clayey loam	
279284	WS48 0.30	13/05/2022	16/05/2022	Silty clayey loam	
279285	TP01 2.50	13/05/2022	16/05/2022	Silty loam	
279286	TP15 1.00	13/05/2022	16/05/2022	Sandy silty loam	
279287	WS2 0.80	11/05/2022	16/05/2022		
279288	WS2 1.90	11/05/2022	16/05/2022		
279289	WS13 0.40	12/05/2022	16/05/2022		
279290	WS14 0.70	13/05/2022	16/05/2022		
279291	WS15 0.10	13/05/2022	16/05/2022		
279292	WS15 2.70	13/05/2022	16/05/2022		
279293	WS16 0.80	12/05/2022	16/05/2022		
279294	WS16 1.20	12/05/2022	16/05/2022		
279295	WS17 0.10	12/05/2022	16/05/2022		
279296	WS17 1.60	12/05/2022	16/05/2022		
279297	WS18 0.70	13/05/2022	16/05/2022		
279298	WS18 1.80	13/05/2022	16/05/2022		
279299	WS19 0.60	12/05/2022	16/05/2022		
279300	WS21 0.70	12/05/2022	16/05/2022		
279301	WS21 1.40	12/05/2022	16/05/2022		
279302	WS22 0.80	10/05/2022	16/05/2022		
279303	WS23 0.30	10/05/2022	16/05/2022		
279304	WS23 2.60	10/05/2022	16/05/2022		
279305	WS24 0.70	12/05/2022	16/05/2022		
279306	WS24 2.20	12/05/2022	16/05/2022		
279307	WS25 0.60	10/05/2022	16/05/2022		
279308	WS25 1.80	10/05/2022	16/05/2022		
279309	WS28 0.10	11/05/2022	16/05/2022		
279310	WS28 2.60	11/05/2022	16/05/2022		
279311	WS29 0.60	11/05/2022	16/05/2022		
279312	WS30 0.60	10/05/2022	16/05/2022		
279313	WS41 0.10	13/05/2022	16/05/2022		
279314	WS41 1.80	13/05/2022	16/05/2022		
279315	WS47 0.60	13/05/2022	16/05/2022		
279316	WS48 0.10	13/05/2022	16/05/2022		
279317	WS78 0.80	11/05/2022	16/05/2022		
279318	WS78 2.30	11/05/2022	16/05/2022		
279319	WS94 0.20	11/05/2022	16/05/2022		
279320	WS94 1.20	11/05/2022	16/05/2022		
279321	TP1 0.10	13/05/2022	16/05/2022		
279322	TP1 2.50	13/05/2022	16/05/2022		
279323	TP4 0.20	11/05/2022	16/05/2022		
279324	TP4 0.50	11/05/2022	16/05/2022		
279325	TP4 1.00	11/05/2022	16/05/2022		
279326	TP5 0.20	13/05/2022	16/05/2022		
279327	TP5 1.50	13/05/2022	16/05/2022		
279328	TP5 2.00	13/05/2022	16/05/2022		
279329	TP7 0.20	12/05/2022	16/05/2022		
279330	TP7 1.50	12/05/2022	16/05/2022		

Sample Summary

Report No.: 22-40609, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
279331	TP8 0.10	13/05/2022	16/05/2022		
279332	TP8 1.00	13/05/2022	16/05/2022		
279333	TP8 2.00	13/05/2022	16/05/2022		
279334	TP10 0.20	13/05/2022	16/05/2022		
279335	TP10 3.00	13/05/2022	16/05/2022		
279336	TP11 1.00	11/05/2022	16/05/2022		
279337	TP11 1.40	11/05/2022	16/05/2022		
279338	TP14 0.30	12/05/2022	16/05/2022		
279339	TP14 2.00	12/05/2022	16/05/2022		
279340	TP14 3.00	12/05/2022	16/05/2022		
279341	TP15 0.50	13/05/2022	16/05/2022		
279342	TP16 0.20	13/05/2022	16/05/2022		
279343	TP16 0.50	13/05/2022	16/05/2022		
279344	TP16 1.00	13/05/2022	16/05/2022		
279345	TP17 0.10	11/05/2022	16/05/2022		
279346	TP17 2.60	11/05/2022	16/05/2022		
279347	TP17 3.00	11/05/2022	16/05/2022		
279348	TP18 3.00	10/05/2022	16/05/2022		
279349	TP19 0.20	11/05/2022	16/05/2022		
279350	TP19 2.00	11/05/2022	16/05/2022		
279351	TP20 2.50	10/05/2022	16/05/2022		
279352	TP23 0.10	11/05/2022	16/05/2022		
279353	TP23 2.50	11/05/2022	16/05/2022		
279354	TP24 0.30	10/05/2022	16/05/2022		
279355	TP28 0.20	10/05/2022	16/05/2022		
279356	TP28 0.50	10/05/2022	16/05/2022		
279357	TP28 1.00	10/05/2022	16/05/2022		
279358	TP55 0.30	11/05/2022	16/05/2022		
279359	TP55 0.50	11/05/2022	16/05/2022		
279360	TP55 1.50	11/05/2022	16/05/2022		
279361	TP69 0.10	10/05/2022	16/05/2022		
279362	TP69 1.00	10/05/2022	16/05/2022		
279363	TP69 1.50	10/05/2022	16/05/2022		
279364	TP70 0.20	10/05/2022	16/05/2022		
279365	TP70 1.50	10/05/2022	16/05/2022		
279366	TP70 2.00	10/05/2022	16/05/2022		

Results Summary

Report No.: 22-40609, issue number 1

				ELAB Reference	279275	279276	279277	279278	279279	279280	279281	279282	279283
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS14	WS15	WS18	WS41	WS47	WS48	TP15	WS14	WS47
				Sample Depth (m)	0.10	0.70	0.10	0.40	0.10	0.60	0.30	2.90	1.40
				Sampling Date	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD										
Soil sample preparation parameters													
Moisture Content	N	%	0.1	11.8	11.4	13.5	16.4	14.8	17.7	15.5	6.7	11.4	
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	7.7	< 0.1	< 0.1	
Description of Inert material removed	N		0	None	None	None	None	None	None	Stones	None	None	
Metals													
Arsenic	M	mg/kg	1	7.0	12.4	6.9	13.1	5.0	10.5	7.0	n/t	n/t	
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	
Chromium	M	mg/kg	5	15.4	20.7	15.9	32.8	15.7	25.8	16.8	n/t	n/t	
Copper	M	mg/kg	5	21.9	17.9	17.2	19.4	11.2	21.2	22.8	n/t	n/t	
Lead	M	mg/kg	5	51.2	17.4	26.2	16.7	20.7	19.2	28.3	n/t	n/t	
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	< 0.01	
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	
Nickel	M	mg/kg	5	7.9	8.1	9.3	11.6	6.6	16.2	10.4	n/t	n/t	
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	
Vanadium	M	mg/kg	5	25.4	30.2	26.0	39.1	24.6	34.9	26.9	n/t	n/t	
Zinc	M	mg/kg	5	46.4	38.7	53.2	55.7	32.0	55.5	51.2	n/t	n/t	
Anions													
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	n/t	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20
Water Soluble Sulphate	M	g/l	0.02	0.05	0.03	0.03	0.03	< 0.02	0.02	< 0.02	< 0.02	< 0.02	0.03
Inorganics													
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	23	< 20	< 20	< 20	< 20	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	n/t	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	0.02	0.02
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04	0.03	0.04	0.03	0.03	0.02	0.04	0.05	0.05	0.04
Water Soluble Boron	N	mg/kg	0.5	1.0	0.7	1.3	0.8	1.3	1.0	1.9	n/t	n/t	n/t

Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference				279275	279276	279277	279278	279279	279280	279281	279282	279283
Customer Reference												
Sample ID												
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS14	WS15	WS18	WS41	WS47	WS48	TP15	WS14	WS47
Sample Depth (m)				0.10	0.70	0.10	0.40	0.10	0.60	0.30	2.90	1.40
Sampling Date				13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD									
Miscellaneous												
pH	M	pH units	0.1	6.9	7.3	6.7	6.9	6.7	6.9	6.9	6.1	5.3
Total Organic Carbon	N	%	0.01	1.4	0.20	1.2	0.29	1.0	0.18	1.5	n/t	n/t
Phenols												
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	n/t	n/t
Polyaromatic hydrocarbons												
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	n/t	n/t

Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference	279275	279276	279277	279278	279279	279280	279281	279282	279283
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS14	WS15	WS18	WS41	WS47	WS48	TP15	WS14	WS47
Sample Depth (m)	0.10	0.70	0.10	0.40	0.10	0.60	0.30	2.90	1.40
Sampling Date	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD						
BTEX									
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t
TPH CWG									
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	1.0	1.3	1.5	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	3.5	3.2	3.3	4.3	4.6	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	1.7	1.6	1.6	2.2	2.4	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	5.7	5.4	5.6	7.2	7.9	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	6.7	6.4	6.6	8.5	9.4	n/t

Results Summary

Report No.: 22-40609, issue number 1

				ELAB Reference	279275	279276	279277	279278	279279	279280	279281	279282	279283
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS14	WS15	WS18	WS41	WS47	WS48	TP15	WS14	WS47
				Sample Depth (m)	0.10	0.70	0.10	0.40	0.10	0.60	0.30	2.90	1.40
				Sampling Date	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
Determinand				Codes	Units	LOD							
OrganoChlorine Pesticides													
alpha-HCH	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference				279284	279285	279286
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				WS48	TP01	TP15
Sample Depth (m)				0.30	2.50	1.00
Sampling Date				13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Moisture Content	N	%	0.1	10.0	14.2	11.6
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None
Metals						
Arsenic	M	mg/kg	1	n/t	n/t	n/t
Beryllium	U	mg/kg	1	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t
Water soluble magnesium	N	g/l	0.01	< 0.01	< 0.01	< 0.01
Mercury	M	mg/kg	0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t
Vanadium	M	mg/kg	5	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t
Anions						
Water Soluble Chloride	M	mg/l	20	< 20	< 20	< 20
Water Soluble Chloride	M	mg/kg	40	n/t	n/t	n/t
Water Soluble Nitrate	U	mg/l	20	< 20	< 20	< 20
Water Soluble Sulphate	M	g/l	0.02	< 0.02	0.02	< 0.02
Inorganics						
Elemental Sulphur	M	mg/kg	20	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	n/t	n/t	n/t
Total Cyanide	M	mg/kg	1	n/t	n/t	n/t
Total Sulphur	N	%	0.01	0.01	0.01	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03	0.05	0.06
Water Soluble Boron	N	mg/kg	0.5	n/t	n/t	n/t

Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference				279284	279285	279286
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				WS48	TP01	TP15
Sample Depth (m)				0.30	2.50	1.00
Sampling Date				13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD			
Miscellaneous						
pH	M	pH units	0.1	6.6	5.9	6.2
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t
Phenols						
Total Phenols	N	mg/kg	6	n/t	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t



Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference				279284	279285	279286
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				WS48	TP01	TP15
Sample Depth (m)				0.30	2.50	1.00
Sampling Date				13/05/2022	13/05/2022	13/05/2022
Determinand	Codes	Units	LOD			
BTEX						
Benzene	M	ug/kg	10	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t
MTBE	U	ug/kg	10	n/t	n/t	n/t
TPH CWG						
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	n/t	n/t	n/t

Results Summary

Report No.: 22-40609, issue number 1

ELAB Reference	279284	279285	279286
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS48	TP01	TP15
Sample Depth (m)	0.30	2.50	1.00
Sampling Date	13/05/2022	13/05/2022	13/05/2022

Determinand	Codes	Units	LOD			
OrganoChlorine Pesticides						
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40609, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
279275	0.10	WS14	Brown soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
279276	0.70	WS15	Brown/Grey soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
279277	0.10	WS18	Brown soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
279278	0.40	WS41	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t
279279	0.10	WS47	Brown soil, organics	No asbestos detected	n/t	n/t	n/t	n/t
279280	0.60	WS48	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
279281	0.30	TP15	Brown soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40609, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	19/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	19/05/2022	110	Colorimetry
pH	M	Air dried sample	23/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	23/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	20/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	23/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	19/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	23/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	19/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	23/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	19/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	23/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	23/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	19/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	20/05/2022	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	17/05/2022	271	
Asbestos identification	U	Air dried sample	23/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40609, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40611

Issue: 1

Date of Issue: 24/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 16/05/2022

Date Approved: 24/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 22-40611, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
279387	WS13 0.20	12/05/2022	17/05/2022	Silty loam	
279388	WS16 0.20	12/05/2022	17/05/2022	Silty loam	
279389	WS17 0.60	12/05/2022	17/05/2022	Silty clayey loam	
279390	WS19 0.10	12/05/2022	17/05/2022	Silty loam	
279391	WS21 0.10	12/05/2022	17/05/2022	Silty loam	
279392	WS24 0.30	12/05/2022	17/05/2022	Silty loam	
279393	TP07 1.00	12/05/2022	17/05/2022	Silty loam	
279394	WS13 2.10	12/05/2022	17/05/2022	Silty clayey loam	
279395	WS19 1.10	12/05/2022	17/05/2022	Silty clayey loam	

Results Summary

Report No.: 22-40611, issue number 1

ELAB Reference	279387	279388	279389	279390	279391	279392	279393	279394	279395
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS13	WS16	WS17	WS19	WS21	WS24	TP07	WS13	WS19
Sample Depth (m)	0.20	0.20	0.60	0.10	0.10	0.30	1.00	2.10	1.10
Sampling Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022

Determinand	Codes	Units	LOD									
Soil sample preparation parameters												
Moisture Content	N	%	0.1	9.2	9.3	11.6	9.4	9.9	12.5	13.7	9.7	13.2
Material removed	N	%	0.1	7.4	8.2	14.0	10.7	6.1	7.3	8.3	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	Stones/Clinker	Stones	Stones	Stones	Stones	Stones	None	None
Metals												
Arsenic	M	mg/kg	1	6.2	6.7	5.9	5.8	6.2	6.6	8.8	n/t	n/t
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t
Chromium	M	mg/kg	5	17.0	15.0	24.3	15.8	14.4	15.2	15.5	n/t	n/t
Copper	M	mg/kg	5	18.5	16.7	20.8	15.4	14.9	15.2	11.7	n/t	n/t
Lead	M	mg/kg	5	25.5	33.3	17.4	26.5	20.6	27.7	8.9	n/t	n/t
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	< 0.01	< 0.01
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t
Nickel	M	mg/kg	5	7.6	7.3	10.0	7.7	7.7	8.9	8.4	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Vanadium	M	mg/kg	5	26.7	23.2	34.3	23.0	21.6	23.3	22.0	n/t	n/t
Zinc	M	mg/kg	5	46.9	46.8	38.8	41.9	42.2	42.3	35.0	n/t	n/t
Anions												
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	< 20
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	n/t	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	< 20
Water Soluble Sulphate	M	g/l	0.02	< 0.02	0.05	0.03	< 0.02	0.03	< 0.02	< 0.02	< 0.02	0.02
Inorganics												
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	n/t	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	0.01	0.02	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.06	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5	< 0.5	< 0.5	0.7	0.8	0.6	< 0.5	n/t	n/t

Results Summary

Report No.: 22-40611, issue number 1

ELAB Reference	279387	279388	279389	279390	279391	279392	279393	279394	279395
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS13	WS16	WS17	WS19	WS21	WS24	TP07	WS13	WS19
Sample Depth (m)	0.20	0.20	0.60	0.10	0.10	0.30	1.00	2.10	1.10
Sampling Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022

Determinand	Codes	Units	LOD									
Miscellaneous												
pH	M	pH units	0.1	6.9	7.8	7.4	7.2	7.1	7.3	7.2	5.4	6.8
Total Organic Carbon	N	%	0.01	1.0	0.98	0.18	0.99	1.0	1.0	0.20	n/t	n/t
Organics												
>C8-C10 BCB (EH_1D_Total)	N	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t
>C10-C12 BCB (EH_1D_Total)	N	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t
>C12-C16 BCB (EH_1D_Total)	N	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t
>C16-C21 BCB (EH_1D_Total)	N	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Diesel Range Organics (>C10-C25) (EH_1D_Total)	N	mg/kg	1	n/t	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Petrol Range Organics (>C6-C10) (HS_1D_MS)	N	mg/kg	0.01	n/t	0.47	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Phenols												
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	n/t	n/t
Polyaromatic hydrocarbons												
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	n/t	n/t
Pyrene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	n/t	n/t

Results Summary

Report No.: 22-40611, issue number 1

ELAB Reference	279387	279388	279389	279390	279391	279392	279393	279394	279395
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS13	WS16	WS17	WS19	WS21	WS24	TP07	WS13	WS19
Sample Depth (m)	0.20	0.20	0.60	0.10	0.10	0.30	1.00	2.10	1.10
Sampling Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022

Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t
TPH CWG												
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	2.0	< 1.0	< 1.0	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	1.2	< 1.0	< 1.0	< 1.0	3.4	< 1.0	< 1.0	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	1.5	< 1.0	< 1.0	< 1.0	5.4	< 1.0	< 1.0	n/t	n/t

Results Summary

Report No.: 22-40611, issue number 1

ELAB Reference			279387	279388	279389	279390	279391	279392	279393	279394	279395
Customer Reference											
Sample ID											
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			WS13	WS16	WS17	WS19	WS21	WS24	TP07	WS13	WS19
Sample Depth (m)			0.20	0.20	0.60	0.10	0.10	0.30	1.00	2.10	1.10
Sampling Date			12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
es	Units	LOD									
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	n/t	n/t	n/t	< 10					



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40611, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
279387	0.20	WS13	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
279388	0.20	WS16	Brown Soil, Stones, Brick, Organic	No asbestos detected	n/t	n/t	n/t	n/t
279389	0.60	WS17	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279390	0.10	WS19	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279391	0.10	WS21	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279392	0.30	WS24	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279393	1.00	TP07	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40611, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Petrol range organics in soil	N	As submitted sample	24/05/2022		GC-MS
Sulphide	N	As submitted sample	19/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	19/05/2022	110	Colorimetry
pH	M	Air dried sample	24/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	24/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	23/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	24/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	19/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	24/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	19/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	23/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	19/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	23/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	24/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	19/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	20/05/2022	210	IR
Basic carbon banding in soil	N	As submitted sample	19/05/2022	218	GC-FID
Diesel range organics in soil	N	As submitted sample	24/05/2022	257	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	17/05/2022	271	
Asbestos identification	U	Air dried sample	24/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40611, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40612

Issue: 1

Date of Issue: 24/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 16/05/2022

Date Approved: 24/05/2022

Details: North Horsham

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 22-40612, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
279396	WS22 0.20	10/05/2022	17/05/2022	Silty loam	
279397	WS23 0.70	10/05/2022	17/05/2022	Silty clayey loam	
279398	WS25 0.10	10/05/2022	17/05/2022	Silty loam	
279399	WS30 0.10	10/05/2022	17/05/2022	Silty loam	
279400	TP18 0.10	10/05/2022	17/05/2022	Silty loam	
279401	TP20 0.20	10/05/2022	17/05/2022	Silty loam	
279402	WS22 2.10	10/05/2022	17/05/2022	Silty clayey loam	
279403	WS30 1.60	10/05/2022	17/05/2022	Silty clayey loam	
279404	TP18 2.00	10/05/2022	17/05/2022	Silty loam	
279405	TP20 1.70	10/05/2022	17/05/2022	Silty loam	
279406	TP24 1.00	10/05/2022	17/05/2022	Silty loam	

Results Summary

Report No.: 22-40612, issue number 1

ELAB Reference	279396	279397	279398	279399	279400	279401	279402	279403	279404	279405	279406
Customer Reference											
Sample ID											
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS22	WS23	WS25	WS30	TP18	TP20	WS22	WS30	TP18	TP20	TP24
Sample Depth (m)	0.20	0.70	0.10	0.10	0.10	0.20	2.10	1.60	2.00	1.70	1.00
Sampling Date	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022

Determinand	Codes	Units	LOD											
Soil sample preparation parameters														
Moisture Content	N	%	0.1	12.2	14.4	9.7	13.9	12.5	12.2	12.3	10.8	12.8	16.5	12.9
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None	None	None	None	None	None	None
Metals														
Arsenic	M	mg/kg	1	8.1	9.7	7.5	6.6	7.3	6.6	n/t	n/t	n/t	n/t	n/t
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t	n/t	n/t
Chromium	M	mg/kg	5	16.4	20.3	15.7	13.6	17.9	16.8	n/t	n/t	n/t	n/t	n/t
Copper	M	mg/kg	5	15.6	14.3	16.4	14.1	15.9	15.7	n/t	n/t	n/t	n/t	n/t
Lead	M	mg/kg	5	22.2	9.8	47.0	28.2	23.4	22.0	n/t	n/t	n/t	n/t	n/t
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t	n/t	n/t
Nickel	M	mg/kg	5	9.8	7.6	7.7	7.1	7.7	7.1	n/t	n/t	n/t	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Vanadium	M	mg/kg	5	27.3	23.9	25.0	22.0	29.6	28.6	n/t	n/t	n/t	n/t	n/t
Zinc	M	mg/kg	5	48.3	29.3	45.9	34.5	47.6	43.3	n/t	n/t	n/t	n/t	n/t
Anions														
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	< 20	< 20	< 20
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	n/t	n/t	n/t	n/t	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	< 20	< 20	< 20
Water Soluble Sulphate	M	g/l	0.02	0.02	0.04	0.03	0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	0.03	0.03
Inorganics														
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	n/t	n/t	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t	n/t	n/t	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	n/t	n/t	n/t	n/t	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	0.02	0.02	0.01	0.02	0.02
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.06	0.05	0.04	0.04	0.04	0.06	0.02	0.02	0.03	0.06	0.04
Water Soluble Boron	N	mg/kg	0.5	0.7	< 0.5	0.8	0.9	0.8	0.8	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 22-40612, issue number 1

ELAB Reference				279396	279397	279398	279399	279400	279401	279402	279403	279404	279405	279406
Customer Reference														
Sample ID														
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS22	WS23	WS25	WS30	TP18	TP20	WS22	WS30	TP18	TP20	TP24
Sample Depth (m)				0.20	0.70	0.10	0.10	0.10	0.20	2.10	1.60	2.00	1.70	1.00
Sampling Date				10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022
Determinand	Codes	Units	LOD											
Miscellaneous														
pH	M	pH units	0.1	6.0	5.7	5.6	6.4	6.5	5.7	6.3	5.6	5.5	5.3	5.5
Total Organic Carbon	N	%	0.01	1.3	0.39	1.2	1.2	1.2	1.7	n/t	n/t	n/t	n/t	n/t
Phenols														
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	n/t	n/t	n/t	n/t	n/t
Polyaromatic hydrocarbons														
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 22-40612, issue number 1

ELAB Reference	279396	279397	279398	279399	279400	279401	279402	279403	279404	279405	279406
Customer Reference											
Sample ID											
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS22	WS23	WS25	WS30	TP18	TP20	WS22	WS30	TP18	TP20	TP24
Sample Depth (m)	0.20	0.70	0.10	0.10	0.10	0.20	2.10	1.60	2.00	1.70	1.00
Sampling Date	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022

Determinand	Codes	Units	LOD											
BTEX														
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t	n/t	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t	n/t	n/t
TPH CWG														
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	1.3	< 1.0	2.2	1.0	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	1.7	< 1.0	2.9	2.2	< 1.0	< 1.0	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 22-40612, issue number 1

ELAB Reference	279396	279397	279398	279399	279400	279401	279402	279403	279404	279405	279406
Customer Reference											
Sample ID											
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS22	WS23	WS25	WS30	TP18	TP20	WS22	WS30	TP18	TP20	TP24
Sample Depth (m)	0.20	0.70	0.10	0.10	0.10	0.20	2.10	1.60	2.00	1.70	1.00
Sampling Date	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022

Determinand	Codes	Units	LOD											
OrganoChlorine Pesticides														
alpha-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40612, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
279396	0.20	WS22	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279397	0.70	WS23	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279398	0.10	WS25	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279399	0.10	WS30	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279400	0.10	TP18	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279401	0.20	TP20	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40612, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	19/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	19/05/2022	110	Colorimetry
pH	M	Air dried sample	24/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	24/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	23/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	24/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	19/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	24/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	19/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	23/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	19/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	23/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	24/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	19/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	20/05/2022	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	17/05/2022	271	
Asbestos identification	U	Air dried sample	24/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40612, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40613

Issue: 1

Date of Issue: 24/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 16/05/2022

Date Approved: 24/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full



Sample Summary

Report No.: 22-40613, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
279407	WS02 0.20	11/05/2022	17/05/2022	Silty loam	
279408	WS28 0.60	11/05/2022	17/05/2022	Sandy silty loam	
279409	WS29 0.10	11/05/2022	17/05/2022	Silty loam	
279410	WS78 0.20	11/05/2022	17/05/2022	Silty loam	
279411	WS94 0.70	11/05/2022	17/05/2022	Silty loam	
279412	TP11 0.10	11/05/2022	17/05/2022	Silty loam	
279413	WS29 2.30	11/05/2022	17/05/2022	Silty clayey loam	
279414	TP19 1.90	11/05/2022	17/05/2022	Silty loam	
279415	TP23 2.20	11/05/2022	17/05/2022	Silty loam	

Results Summary

Report No.: 22-40613, issue number 1

				ELAB Reference	279407	279408	279409	279410	279411	279412	279413	279414	279415			
				Customer Reference												
				Sample ID												
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
				Sample Location	WS02	WS28	WS29	WS78	WS94	TP11	WS29	TP19	TP23			
				Sample Depth (m)	0.20	0.60	0.10	0.20	0.70	0.10	2.30	1.90	2.20			
				Sampling Date	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022			
Determinand					Codes	Units	LOD									
Soil sample preparation parameters																
Moisture Content					N	%	0.1	11.5	9.4	15.3	10.5	16.8	11.5	17.4	12.8	12.0
Material removed					N	%	0.1	10.4	< 0.1	< 0.1	14.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed					N		0	Stones	None	None	Stones/Wood	None	None	None	None	None
Metals																
Arsenic					M	mg/kg	1	6.9	13.2	7.7	8.4	21.6	7.7	n/t	n/t	n/t
Beryllium					U	mg/kg	1	< 1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Cadmium					M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t
Chromium					M	mg/kg	5	13.7	19.0	18.9	19.8	29.5	19.8	n/t	n/t	n/t
Copper					M	mg/kg	5	15.9	17.1	21.0	20.0	20.5	15.9	n/t	n/t	n/t
Lead					M	mg/kg	5	23.6	13.1	32.1	34.1	15.9	21.5	n/t	n/t	n/t
Water soluble magnesium					N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	< 0.01	< 0.01
Mercury					M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t	n/t	n/t
Nickel					M	mg/kg	5	7.3	18.3	11.4	14.7	14.6	11.1	n/t	n/t	n/t
Selenium					M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Vanadium					M	mg/kg	5	20.4	27.2	28.4	30.9	37.0	31.9	n/t	n/t	n/t
Zinc					M	mg/kg	5	41.0	49.7	56.2	72.6	45.9	54.5	n/t	n/t	n/t
Anions																
Water Soluble Chloride					M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	< 20
Water Soluble Chloride					M	mg/kg	40	< 40	< 40	< 40	< 40	< 40	< 40	n/t	n/t	n/t
Water Soluble Nitrate					U	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	< 20	< 20	21
Water Soluble Sulphate					M	g/l	0.02	0.02	< 0.02	0.03	0.02	0.04	0.04	< 0.02	< 0.02	< 0.02
Inorganics																
Elemental Sulphur					M	mg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	n/t	n/t	n/t
Hexavalent Chromium					N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t	n/t	n/t
Total Sulphide					N	mg/kg	2	< 2	< 2	< 2	< 2	< 2	< 2	n/t	n/t	n/t
Total Cyanide					M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total Sulphur					N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	0.01	0.01	0.01
Acid Soluble Sulphate (SO4)					U	%	0.02	0.04	0.02	0.05	0.05	0.09	0.04	< 0.02	0.02	0.02
Water Soluble Boron					N	mg/kg	0.5	0.8	< 0.5	1.1	0.7	< 0.5	0.9	n/t	n/t	n/t



Results Summary

Report No.: 22-40613, issue number 1

				ELAB Reference	279407	279408	279409	279410	279411	279412	279413	279414	279415
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS02	WS28	WS29	WS78	WS94	TP11	WS29	TP19	TP23
				Sample Depth (m)	0.20	0.60	0.10	0.20	0.70	0.10	2.30	1.90	2.20
				Sampling Date	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022
Determinand	Codes	Units	LOD										
Miscellaneous													
pH	M	pH units	0.1	6.0	6.4	5.8	7.0	6.4	5.4	5.8	5.6	6.0	
Total Organic Carbon	N	%	0.01	1.4	0.24	1.6	2.3	0.21	1.6	n/t	n/t	n/t	
Phenols													
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6	< 6	n/t	n/t	n/t	
Polyaromatic hydrocarbons													
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	n/t	n/t	
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	n/t	n/t	n/t	
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	n/t	n/t	n/t	
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	2.1	< 0.1	< 0.1	n/t	n/t	n/t	
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1	n/t	n/t	n/t	
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	4.3	< 0.1	< 0.1	n/t	n/t	n/t	
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	3.5	< 0.1	< 0.1	n/t	n/t	n/t	
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	1.7	< 0.1	< 0.1	n/t	n/t	n/t	
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	2.0	< 0.1	< 0.1	n/t	n/t	n/t	
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	1.9	< 0.1	< 0.1	n/t	n/t	n/t	
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	2.0	< 0.1	< 0.1	n/t	n/t	n/t	
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	2.1	< 0.1	< 0.1	n/t	n/t	n/t	
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	1.6	< 0.1	< 0.1	n/t	n/t	n/t	
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	n/t	n/t	n/t	
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	1.4	< 0.1	< 0.1	n/t	n/t	n/t	
Total PAH(16)	M	mg/ka	0.4	< 0.4	< 0.4	< 0.4	24.1	< 0.4	< 0.4	n/t	n/t	n/t	

Results Summary

Report No.: 22-40613, issue number 1

				ELAB Reference	279407	279408	279409	279410	279411	279412	279413	279414	279415
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS02	WS28	WS29	WS78	WS94	TP11	WS29	TP19	TP23
				Sample Depth (m)	0.20	0.60	0.10	0.20	0.70	0.10	2.30	1.90	2.20
				Sampling Date	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022
Determinand	Codes	Units	LOD										
BTEX													
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	n/t	n/t	n/t
TPH CWG													
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0	n/t	n/t	n/t
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	11.6	1.8	2.2	n/t	n/t	n/t
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	10.1	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	58.1	8.7	1.6	n/t	n/t	n/t
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	10.4	< 1.0	< 1.0	n/t	n/t	n/t
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	79.8	10.2	2.3	n/t	n/t	n/t
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	91.5	12.1	4.5	n/t	n/t	n/t



Results Summary

Report No.: 22-40613, issue number 1

			279407	279408	279409	279410	279411	279412	279413	279414	279415
ELAB Reference											
Customer Reference											
Sample ID											
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			WS02	WS28	WS29	WS78	WS94	TP11	WS29	TP19	TP23
Sample Depth (m)			0.20	0.60	0.10	0.20	0.70	0.10	2.30	1.90	2.20
Sampling Date			11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022
es	Units	LOD									
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n/t	n/t	n/t
	ug/kg	10	< 10	n/t	< 10	n/t	n/t	n/t	n		



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-40613, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
279407	0.20	WS02	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279408	0.60	WS28	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
279409	0.10	WS29	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279410	0.20	WS78	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
279411	0.70	WS94	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
279412	0.10	TP11	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-40613, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	20/05/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	19/05/2022	110	Colorimetry
pH	M	Air dried sample	24/05/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	24/05/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	23/05/2022	118	ICPMS
W. Sol Metals	N	Air dried sample	24/05/2022	118	ICPMS
Phenols in solids	N	As submitted sample	19/05/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	24/05/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	19/05/2022	133	GC-FID
Water soluble anions	M	Air dried sample	23/05/2022	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	19/05/2022	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	24/05/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	24/05/2022	181	GC-MS
BTEX in solids	M	As submitted sample	24/05/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	24/05/2022	202	Colorimetry
Total cyanide	M	As submitted sample	19/05/2022	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	20/05/2022	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	17/05/2022	271	
Asbestos identification	U	Air dried sample	24/05/2022	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-40613, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-40746

Issue: 1

Date of Issue: 27/05/2022

Contact: Anthony Potter

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-02604

Order No: Not Supplied

Customer Reference: GE20724

Date Received: 19/05/2022

Date Approved: 27/05/2022

Details: North Horsham

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full

Sample Summary

Report No.: 22-40746, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
280106	WS06 0.10	16/05/2022	20/05/2022	Silty loam	
280107	WS10 0.20	17/05/2022	20/05/2022	Silty loam	
280108	WS34 0.20	16/05/2022	20/05/2022	Silty loam	
280109	WS38 0.80	16/05/2022	20/05/2022	Silty loam	
280110	WS44 0.10	16/05/2022	20/05/2022	Silty loam	
280111	WS45 0.10	16/05/2022	20/05/2022	Silty loam	
280112	WS49 0.10	17/05/2022	20/05/2022	Silty loam	
280113	WS50 0.60	17/05/2022	20/05/2022	Silty loam	
280114	WS53 0.30	17/05/2022	20/05/2022	Silty loam	
280115	TP03 0.20	16/05/2022	20/05/2022	Silty loam	
280116	TP33 0.10	17/05/2022	20/05/2022	Silty loam	
280117	WS10 1.40	17/05/2022	20/05/2022	Silty clayey loam	
280118	WS38 2.10	16/05/2022	20/05/2022	Silty clayey loam	
280119	WS50 1.80	17/05/2022	20/05/2022	Silty clayey loam	
280120	TP03 2.00	16/05/2022	20/05/2022	Silty loam	
280121	TP29 1.50	17/05/2022	20/05/2022	Silty loam	
280122	TP34 1.00	17/05/2022	20/05/2022	Silty loam	
280123	TP2 0.10	16/05/2022	20/05/2022		
280124	TP2 0.50	16/05/2022	20/05/2022		
280125	TP2 1.00	16/05/2022	20/05/2022		
280126	TP3 3.00	16/05/2022	20/05/2022		
280127	TP6 0.30	16/05/2022	20/05/2022		
280128	TP6 1.50	16/05/2022	20/05/2022		
280129	TP6 2.00	16/05/2022	20/05/2022		
280130	TP9 0.20	16/05/2022	20/05/2022		
280131	TP9 0.50	16/05/2022	20/05/2022		
280132	TP9 1.00	16/05/2022	20/05/2022		
280133	TP27 0.20	16/05/2022	20/05/2022		
280134	TP27 1.00	16/05/2022	20/05/2022		
280135	TP27 2.00	16/05/2022	20/05/2022		
280136	TP27 2.50	16/05/2022	20/05/2022		
280137	TP29 0.20	17/05/2022	20/05/2022		
280138	TP29 0.50	17/05/2022	20/05/2022		
280139	TP32 0.10	16/05/2022	20/05/2022		
280140	TP32 1.50	16/05/2022	20/05/2022		
280141	TP32 3.00	16/05/2022	20/05/2022		
280142	TP33 0.50	17/05/2022	20/05/2022		
280143	TP33 1.00	17/05/2022	20/05/2022		
280144	TP34 0.20	17/05/2022	20/05/2022		
280145	TP36 0.10	18/05/2022	20/05/2022		
280146	TP36 1.50	18/05/2022	20/05/2022	Silty loam	
280147	TP36 2.50	18/05/2022	20/05/2022		
280148	TP37 0.20	18/05/2022	20/05/2022	Silty loam	
280149	TP37 2.00	18/05/2022	20/05/2022		
280150	TP37 2.50	18/05/2022	20/05/2022		
280151	TP38 0.20	18/05/2022	20/05/2022		
280152	TP38 1.00	18/05/2022	20/05/2022		
280153	TP38 2.00	18/05/2022	20/05/2022		
280154	TP40 0.20	18/05/2022	20/05/2022	Silty loam	
280155	TP40 1.00	18/05/2022	20/05/2022		
280156	TP40 3.00	18/05/2022	20/05/2022		
280157	TP41 0.10	18/05/2022	20/05/2022		
280158	TP41 0.50	18/05/2022	20/05/2022		
280159	TP41 2.50	18/05/2022	20/05/2022		
280160	WS6 0.70	16/05/2022	20/05/2022		
280161	WS6 1.80	16/05/2022	20/05/2022		
280162	WS10 0.80	17/05/2022	20/05/2022		
280163	WS34 0.60	16/05/2022	20/05/2022		
280164	WS38 0.10	16/05/2022	20/05/2022		
280165	WS44 0.70	16/05/2022	20/05/2022		
280166	WS44 1.20	16/05/2022	20/05/2022		
280167	WS45 0.70	16/05/2022	20/05/2022		
280168	WS45 1.20	16/05/2022	20/05/2022		
280169	WS49 0.70	17/05/2022	20/05/2022		

Sample Summary

Report No.: 22-40746, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
280170	WS49 1.80	17/05/2022	20/05/2022		
280171	WS50 0.10	17/05/2022	20/05/2022		
280172	WS53 0.80	17/05/2022	20/05/2022		
280173	WS53 1.20	17/05/2022	20/05/2022		
280174	WS61 0.20	18/05/2022	20/05/2022	Silty loam	
280175	WS61 0.60	18/05/2022	20/05/2022		
280176	WS61 1.60	18/05/2022	20/05/2022		
280177	WS66 0.10	18/05/2022	20/05/2022	Silty loam	
280178	WS66 0.20	18/05/2022	20/05/2022		
280179	WS66 0.60	18/05/2022	20/05/2022		
280180	WS66 0.80	18/05/2022	20/05/2022		
280181	WS66 1.40	18/05/2022	20/05/2022		
280182	WS66 2.20	18/05/2022	20/05/2022	Silty loam	
280183	WS68 0.10	18/05/2022	20/05/2022	Silty loam	
280184	WS68 0.60	18/05/2022	20/05/2022		
280185	WS68 2.70	18/05/2022	20/05/2022		
280186	WS69 0.10	18/05/2022	20/05/2022	Silty loam	c
280187	WS69 0.40	18/05/2022	20/05/2022		
280188	WS80 0.10	18/05/2022	20/05/2022	Silty loam	
280189	WS80 0.70	18/05/2022	20/05/2022		
280190	WS80 1.20	18/05/2022	20/05/2022		
280191	WS84 0.10	18/05/2022	20/05/2022	Silty clayey loam	c
280192	WS84 0.40	18/05/2022	20/05/2022		
280193	WS84 2.60	18/05/2022	20/05/2022	Silty clayey loam	
280194	WS84 0.20	18/05/2022	20/05/2022		
280195	WS84 0.80	18/05/2022	20/05/2022		
280196	WS85 0.10	18/05/2022	20/05/2022	Silty loam	
280197	WS85 0.70	18/05/2022	20/05/2022		
280198	WS85 1.60	18/05/2022	20/05/2022		
280199	WS86 0.10	18/05/2022	20/05/2022		
280200	WS86 0.60	18/05/2022	20/05/2022	Silty clayey loam	
280201	WS86 1.40	18/05/2022	20/05/2022		
280202	WS87 0.10	18/05/2022	20/05/2022	Silty loam	
280203	WS87 0.80	18/05/2022	20/05/2022		
280204	WS87 1.90	18/05/2022	20/05/2022		
280205	WS88 0.20	18/05/2022	20/05/2022	Silty loam	
280206	WS88 0.60	18/05/2022	20/05/2022	Silty clayey loam	
280207	WS88 1.20	18/05/2022	20/05/2022		