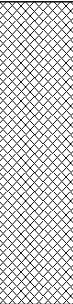
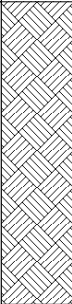


 Geo-Environmental	Contract Name: Phase 8A - Berewood			Client: Bloor Homes Southern			Trial Pit ID: TP10		
	Contract Number: GE21512	Date Started: 17/02/2023	Logged By: TM	Checked By:	Status: PRELIM	Sheet 1 of 1			
	Easting: 467738.8	Northing: 108986.3	Ground Level:	Plant Used: 3CX	Date Printed: 13/03/2023	Scale: 1:25			
Trial Pit Log									
Weather: Overcast			Hole Termination:			Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.30	ES1	PP=1.25kg/cm2		(1.00)		Firm brown and orangish brown sandy CLAY with frequent rootlets, a tile fragment and a medium gravel sized polystyrene tray. Sand is fine. MADE GROUND		0.5	
				1.00		End of Trial Pit at 1.00m		1.0	
								1.5	
								2.0	
								2.5	
								3.0	
								3.5	
Dimensions:						Photo:			
Final Depth:	1.00m								
Final Width:	0.50m								
Final Length:	1.50m								
Remarks									
Pit excavated in perimeter bund.									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						
						PhotoofPit PhotoofSpoil			



Geo-Environmental www.gesl.net

Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS01

Sheet 1 of 2

Project Name: Phase 8A - Berewood

Project No.
GE21512

Co-ords: 467542E - 108934N

Hole Type
WLS

Location: Waterlooille

Level: 52.95

Scale
1:25

Client: Bloor Homes Southern

Dates: 16/02/2023

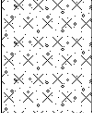
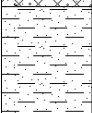
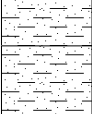
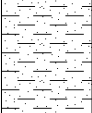
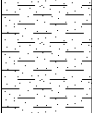
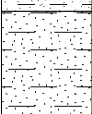
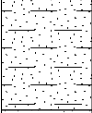
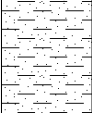
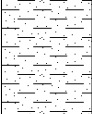
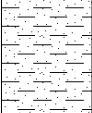
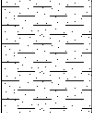
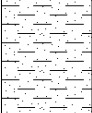
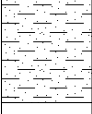
Logged By
TM

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	52.75		Grass over brown sandy gravelly SILT with frequent rootlets. Sand is fine. Gravel is fine subrounded. TOPSOIL	
		0.30	ES					Soft light brown to orangish brown mottled grey sandy CLAY. Sand is fine. LONDON CLAY	
		0.50	D						
		1.00	D		1.10	51.85			1
		1.00	SPT	N=3 (1,1/0,1,1,1)				Brown and grey mottled clayey fine to medium SAND. LONDON CLAY	
		1.50	D						
		2.00	D		2.00	50.95			2
		2.00	SPT	N=9 (1,1/2,2,2,3)				Loose brown clayey fine to medium SAND with occasional clay lenses. LONDON CLAY	
		2.50	D						
		2.80	D		2.80	50.15			3
		3.00	D					Firm becoming stiff grey sandy CLAY. Occasional sandy lenses. Sand is fine. LONDON CLAY	
		3.00	SPT	N=4 (1,1/1,1,1,1)					
		3.25	PP	2.0kg/cm2					
		3.50	D						
		3.50	PP	2.5kg/cm2					
		3.75	PP	2.5kg/cm2					
		4.00	D						
		4.00	SPT	N=13 (2,3/3,3,3,4)					
		4.50	D						4
		4.50	PP	3.0kg/cm2					
		4.95	PP	3.0kg/cm2					
		5.00	D						5

Continued on Next Sheet

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		
			2.90	2.90		

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net			Borehole Log				Borehole No. WS01 Sheet 2 of 2			
Project Name: Phase 8A - Berewood			Project No. GE21512		Co-ords: 467542E - 108934N		Hole Type WLS			
Location: Waterlooville					Level: 52.95		Scale 1:25			
Client: Bloor Homes Southern					Dates: 16/02/2023		Logged By TM			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		5.00	SPT	N=15 (2,3/3,4,4,4)	5.45	47.50		Firm becoming stiff grey sandy CLAY. Occasional sandy lenses. Sand is fine. LONDON CLAY		
										End of Borehole at 5.45m
										6
										7
										8
										9
										10
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To
			2.90							2.90
										

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net			Borehole Log				Borehole No. WS02 Sheet 1 of 2			
Project Name: Phase 8A - Berewood			Project No. GE21512		Co-ords: 467700E - 108911N		Hole Type WLS			
Location: Waterlooille					Level: 53.34		Scale 1:25			
Client: Bloor Homes Southern					Dates: 16/02/2023		Logged By TM			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.20	53.14		Brown sandy gravelly SILT with frequent rootlets. Sand is fine. Gravel is fine subrounded to subangular. TOPSOIL		
		0.50	D		0.60	52.74		Brown slightly sandy slightly gravelly clayey SILT with frequent to occasional rootlets. Sand is fine. Gravel is fine to medium subrounded to subangular. LONDON CLAY		
		0.75 0.80	PP ES	1.5kg/cm2						Soft to firm orangish brown sandy CLAY. Sand is fine to medium. LONDON CLAY
		1.00 1.00 1.00	D PP SPT	1.5kg/cm2 N=4 (1,1/1,1,1,1)	1.10	52.24		Soft becoming firm orangish brown mottled grey sandy CLAY. Sand is fine to medium. LONDON CLAY		
		1.50 1.50	D PP	0.5kg/cm2						
		2.00 2.00 2.00	D PP SPT	0.5kg/cm2 N=12 (2,3/3,2,3,4)	2.10	51.24		Medium dense red brown grey and orange multicoloured clayey fine to medium SAND. LONDON CLAY		
		2.50	D							
		2.80	PP	3.0kg/cm2	2.80	50.54		Medium dense interbedded firm to stiff grey sandy CLAY. Sand is fine to medium interbedded with grey clayey fine to medium SAND. LONDON CLAY		
		3.00 3.00 3.00	D PP SPT	3.0kg/cm2 N=10 (2,2/2,3,2,3)						
		3.50	D							
		3.70	PP	2.5kg/cm2						
		3.90 4.00 4.00	PP D SPT	2.5kg/cm2 N=10 (2,2/2,3,2,3)						
		4.50	D							
		5.00	D							
		Continued on Next Sheet								5
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike						Rose To	
			2.06	2.06						



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net			Borehole Log				Borehole No. WS02 Sheet 2 of 2		
Project Name: Phase 8A - Berewood			Project No. GE21512		Co-ords: 467700E - 108911N		Hole Type WLS		
Location: Waterlooville					Level: 53.34		Scale 1:25		
Client: Bloor Homes Southern					Dates: 16/02/2023		Logged By TM		
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00	SPT	N=14 (1,2/2,3,5,4)	5.45	47.89		Medium dense interbedded firm to stiff grey sandy CLAY. Sand is fine to medium interbedded with grey clayey fine to medium SAND. LONDON CLAY	
									End of Borehole at 5.45m
6 7 8 9 10									
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike						Rose To
			2.06						2.06
									



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS03

Sheet 1 of 2

Project Name: Phase 8A - Berewood

Project No.
GE21512

Co-ords: 467547E - 108875N

Hole Type
WLS

Location: Waterlooille

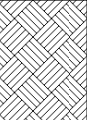
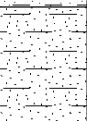
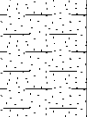
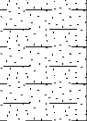
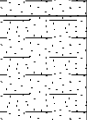
Level: 54.55

Scale
1:25

Client: Bloor Homes Southern

Dates: 16/02/2023

Logged By
TM

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES	1.0kg/cm2	0.40	54.15		Brown sandy gravelly SILT with frequent rootlets. Sand is fine to medium. Gravel is fine subrounded to subangular. TOPSOIL	1
		0.40	ES						
		0.50	D						
		0.60	PP	N=4 (1,1/1,1,1,1)	0.80	53.75		Firm orangish brown mottled brownish grey sandy CLAY. Sand is fine to medium. LONDON CLAY	2
		1.00	D						
		1.00	SPT						
		1.50	D	N=5 (1,1/1,1,1,2)	2.40	52.15		Loose orangish brown and grey mottled clayey fine to medium SAND. LONDON CLAY	3
		2.00	D						
		2.00	SPT						
		2.50	D	2.5kg/cm2	2.80	51.75		Brown clayey fine to medium SAND. LONDON CLAY	4
		2.70	PP						
		3.00	D						
		3.00	SPT	N=13 (2,2/3,3,4,3)				Firm to stiff grey sandy CLAY. Sand is fine. LONDON CLAY	5
		3.50	D						
		4.00	D						
		4.00	PP	2.5kg/cm2					Continued on Next Sheet
		4.00	SPT						
		4.50	D						
				N=14 (2,3/3,3,4,4)					

Continued on Next Sheet

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	





www.gesl.net

Borehole Log

Borehole No.

WS03

Sheet 2 of 2

Project Name: Phase 8A - Berewood

Project No.
GE21512

Co-ords: 467547E - 108875N

Hole Type	WLS
-----------	-----

Location: Waterloo

Level:	54.55
--------	-------

Scale
1:25

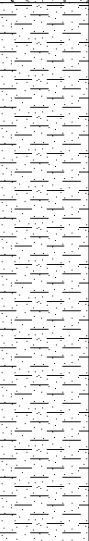
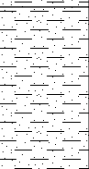
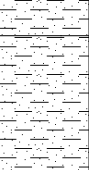
Client: Bloor Homes Southern

Dates: 16/02/2023

Logged By
TM

[illegible]

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log Borehole No. WS05 Sheet 1 of 2			
Project Name: Phase 8A - Berewood		Project No. GE21512		Co-ords: 467608E - 108834N		Hole Type WLS	
Location: Waterlooille				Level: 56.32		Scale 1:25	
Client: Bloor Homes Southern				Dates: 16/02/2023		Logged By TM	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	56.22		Brown sandy slightly gravelly SILT with frequent rootlets. Sand is fine. Gravel is fine subangular. TOPSOIL	
		0.30	ES					Soft brown sandy slightly gravelly CLAY with frequent rootlets. Sand is fine. Gravel is fine subangular. LONDON CLAY	
		0.50	D		0.60	55.72		Firm becoming stiff brown mottled orangish brown sandy CLAY. Sand is fine. LONDON CLAY	1
		0.80	ES						
		0.80	PP	1.0kg/cm2					
		1.00	D						
		1.00	SPT	N=6 (1,1/1,2,1,2)					
		1.20	PP	1.0kg/cm2					
		1.50	D						2
		1.50	PP	1.5kg/cm2					
		1.90	PP	1.5kg/cm2					
		2.00	D						
		2.00	SPT	N=13 (1,2/2,3,4,4)					
		2.20	PP	1.5kg/cm2					
		2.50	D		2.40	53.92		Stiff orangish brown and grey mottled very sandy CLAY. Sand is fine to medium. LONDON CLAY	3
		2.60	PP	2.0kg/cm2					
		3.00	D					Soft to firm greyish brown sandy CLAY. Sand is fine. LONDON CLAY	4
	3.00	PP	2.5kg/cm2	3.05	53.27				
	3.00	SPT	N=15 (2,3/3,4,4,4)						
	3.50	B					No recovery	5	
	4.00	D		4.00	52.32				
	4.00	SPT	N=20 (2,2/4,5,5,6)						
	4.50	D		4.30	52.02		Firm grey sandy CLAY. Sand is fine. LONDON CLAY		
	5.00	D							
Continued on Next Sheet									

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			3.44	3.07	



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net			Borehole Log				Borehole No. WS05 Sheet 2 of 2			
Project Name: Phase 8A - Berewood			Project No. GE21512		Co-ords: 467608E - 108834N		Hole Type WLS			
Location: Waterlooville					Level: 56.32		Scale 1:25			
Client: Bloor Homes Southern					Dates: 16/02/2023		Logged By TM			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		5.00	SPT	N=12 (1,2/2,3,4,3)	5.45	50.87		Firm grey sandy CLAY. Sand is fine. LONDON CLAY	6 7 8 9 10	
										End of Borehole at 5.45m
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To
			3.44							3.07
										

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Project No. GE21512 Co-ords: 467573E - 108796N				Borehole No. WS06 Sheet 1 of 2	
Project Name: Phase 8A - Berewood				Location: Waterlooville				Hole Type WLS	
Client: Bloor Homes Southern				Dates: 16/02/2023				Scale 1:25	
Well		Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Water Strikes		Depth (m)	Type	Results					
		0.10	ES		0.30			Brown sandy gravelly SILT with frequent rootlets sand is fine to coarse. Gravel is fine subangular to subrounded. TOPSOIL	
		0.50	D						
		0.70	ES		0.70			Soft becoming firm orangish brown and light brown mottled very sandy CLAY. Sand is fine to medium. LONDON CLAY	
		1.00	D						
		1.00	SPT	N=7 (1,1/1,2,2,2)	1.80			Firm orangish brown mottled grey sandy CLAY. Sand is fine. LONDON CLAY	
		1.20	PP	1.0kg/cm2					
		1.50	D		1.80				
		1.70	PP	1.0kg/cm2					
		1.90	PP	1.0kg/cm2	3.80			Firm to stiff grey sandy CLAY. Sand is fine. LONDON CLAY	
		2.00	D						
		2.00	SPT	N=7 (2,2/2,1,2,2)	3.80				
		2.10	PP	1.5kg/cm2					
		2.50	D		3.80				
		2.60	PP	1.5kg/cm2					
		2.90	PP	1.5kg/cm2	3.80				
		3.00	D						
		3.00	SPT	N=9 (1,2/2,3,2,2)	3.80				
		3.30	PP	1.5kg/cm2					
		3.50	D		3.80				
		3.80	PP	1.5kg/cm2					
4.00	D		3.80						
4.00	SPT	N=20 (4,4/5,5,5,5)							
4.20	PP	2.0kg/cm2	3.80						
4.50	D								
4.60	PP	2.0kg/cm2	3.80						
4.90	PP	2.0kg/cm2							
		5.00	D						
Continued on Next Sheet									5
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike	Rose To					





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Borehole Log

Borehole No.

WS06

Sheet 2 of 2

Project Name: Phase 8A - Berewood

Project No.
GE21512

Co-ords: 467573E - 108796N

Hole Type	WLS
-----------	-----

Location: Waterloo

Level:

Scale
1:25

Client: Bloor Homes Southern

Dates: 16/02/2023

Logged By
TM

[illegible]

APPENDIX C

Geotechnical Laboratory Results





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH01

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 4.45 m

Depth Base - m

Sample Type D

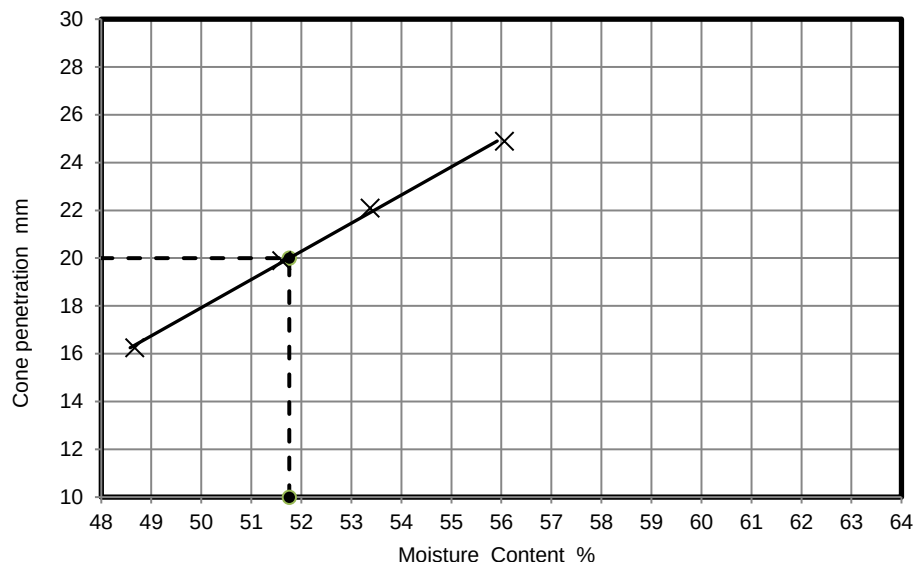
Soil Description Dark grey and occasional brown sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

52

%

PLASTIC LIMIT

26

%

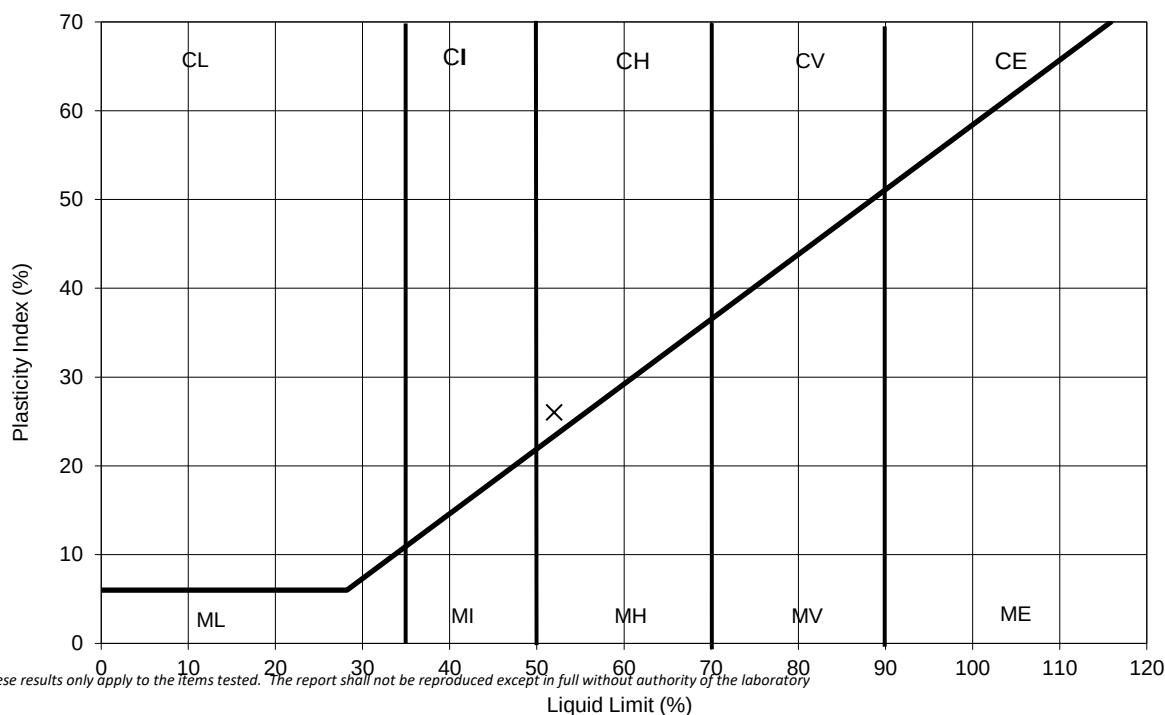
PLASTICITY INDEX

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: 09/03/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH01

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 7.50 m

Depth Base - m

Sample Type D

Soil Description

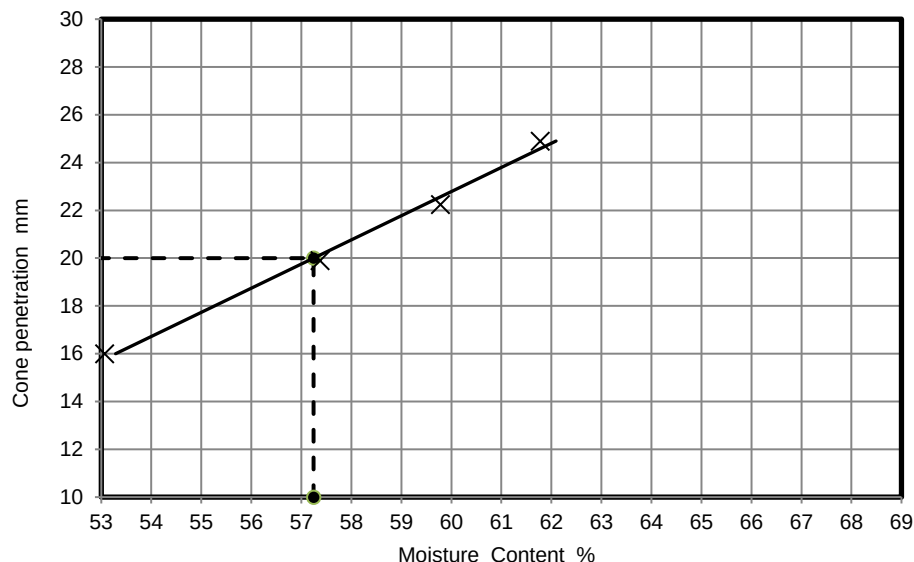
Dark grey and occasional brown slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

57

%

PLASTIC LIMIT

24

%

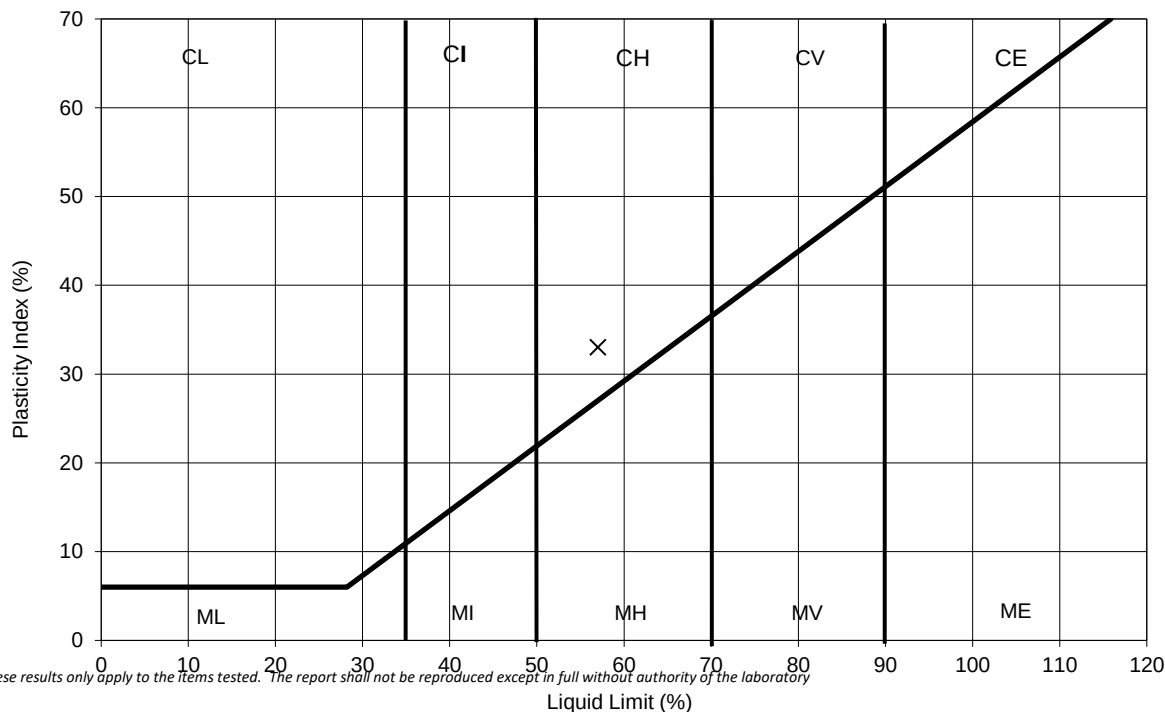
PLASTICITY INDEX

33

%

Remarks

PLASTICITY INDEX



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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: 09/03/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH01

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 12.00 m

Depth Base - m

Sample Type D

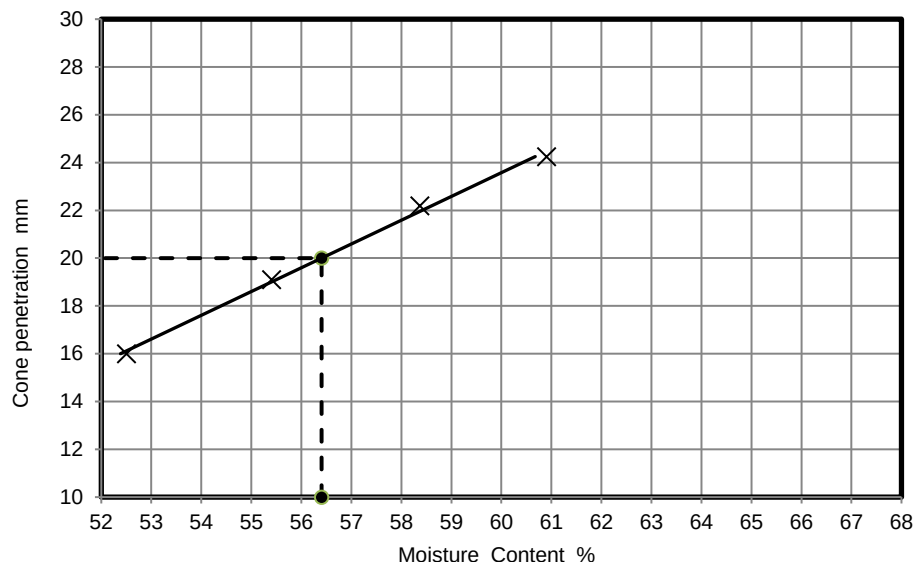
Soil Description Dark grey and occasional brown slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

30

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

56

%

PLASTIC LIMIT

24

%

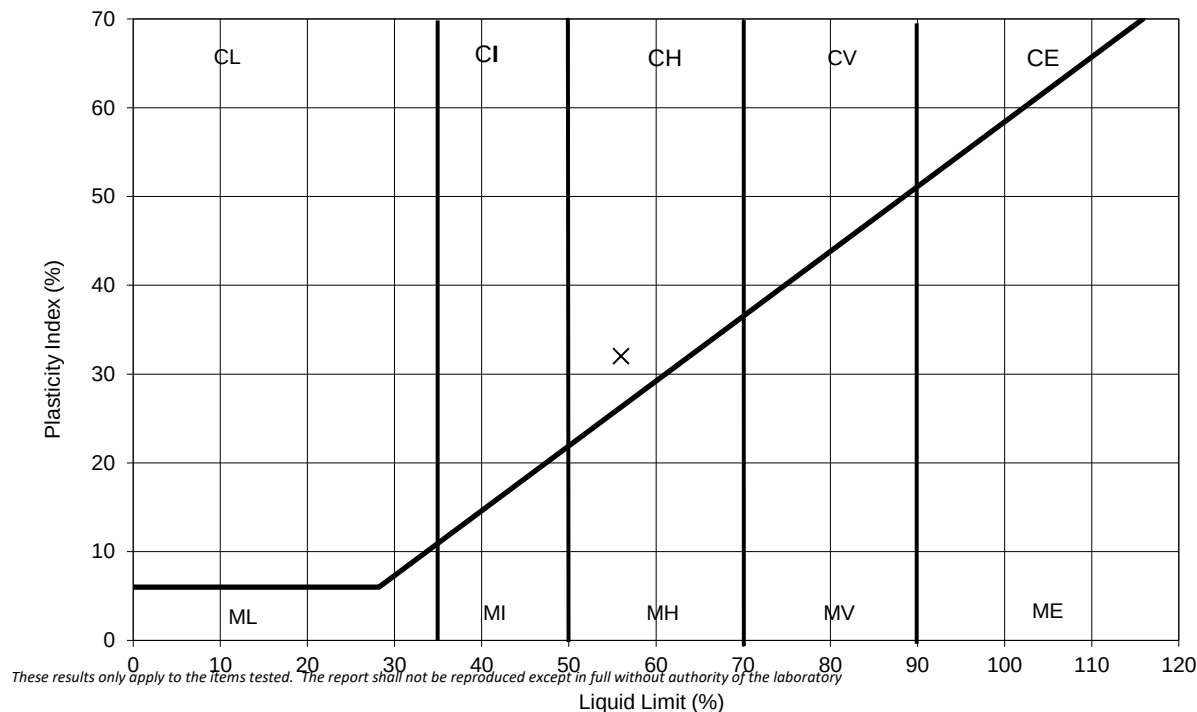
PLASTICITY INDEX

32

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH02

Site Name Phase 8A - Berewood

Sample No. 2

Project No. GE21512

Client

GESL

Depth Top 5.45 m

Depth Base - m

Sample Type D

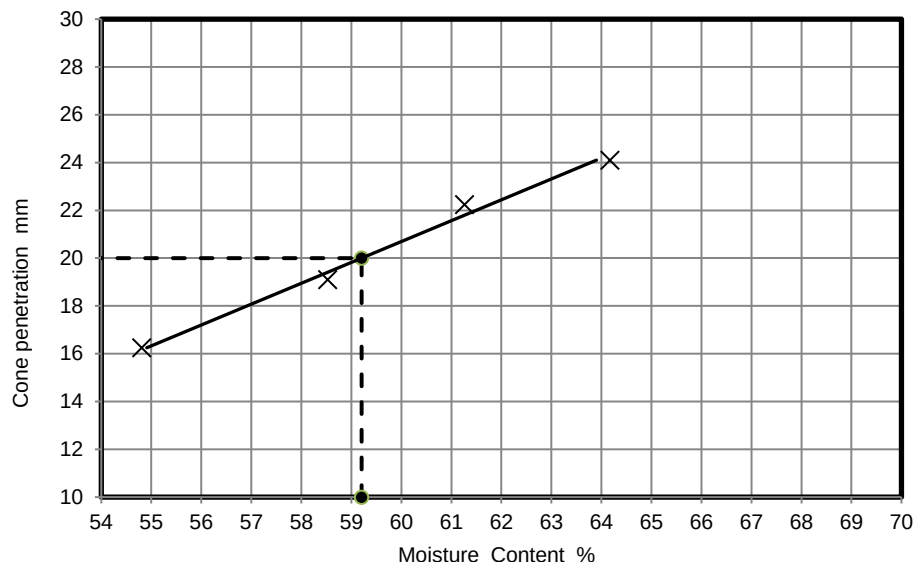
Soil Description Orangish brown slightly mottled grey slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

31

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

59

%

PLASTIC LIMIT

25

%

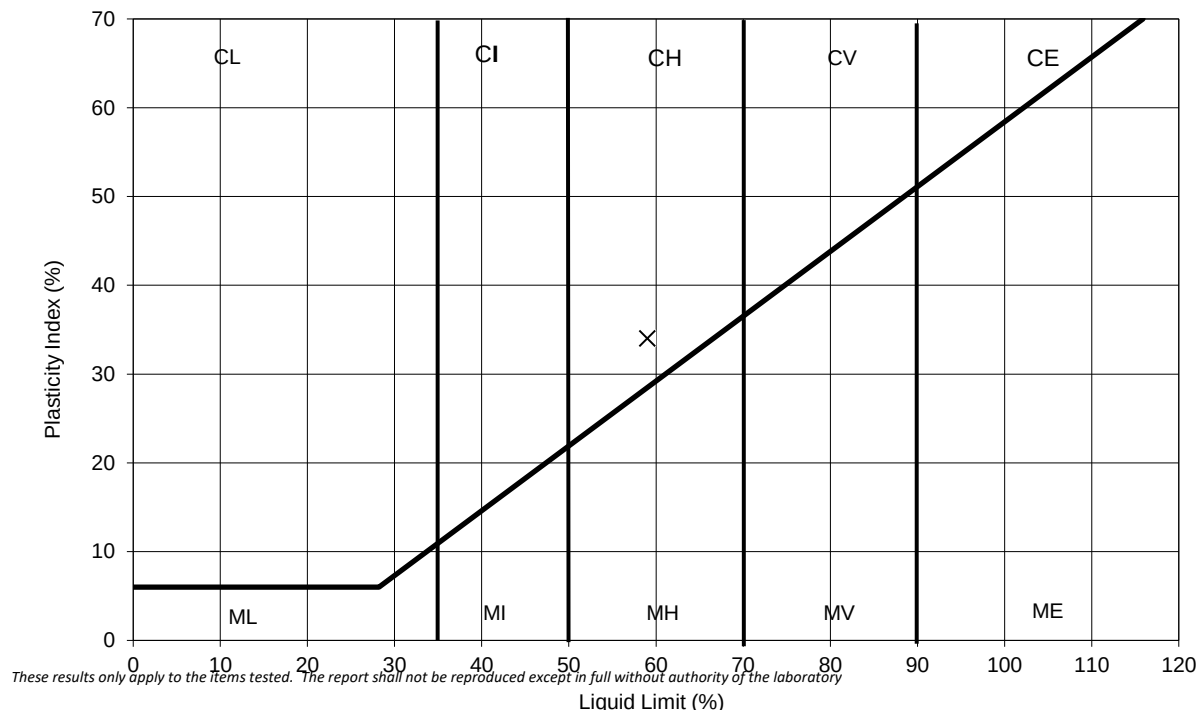
PLASTICITY INDEX

34

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH02

Site Name Phase 8A - Berewood

Sample No. 12

Project No. GE21512

Client

GESL

Depth Top 11.45 m

Depth Base - m

Sample Type D

Soil Description

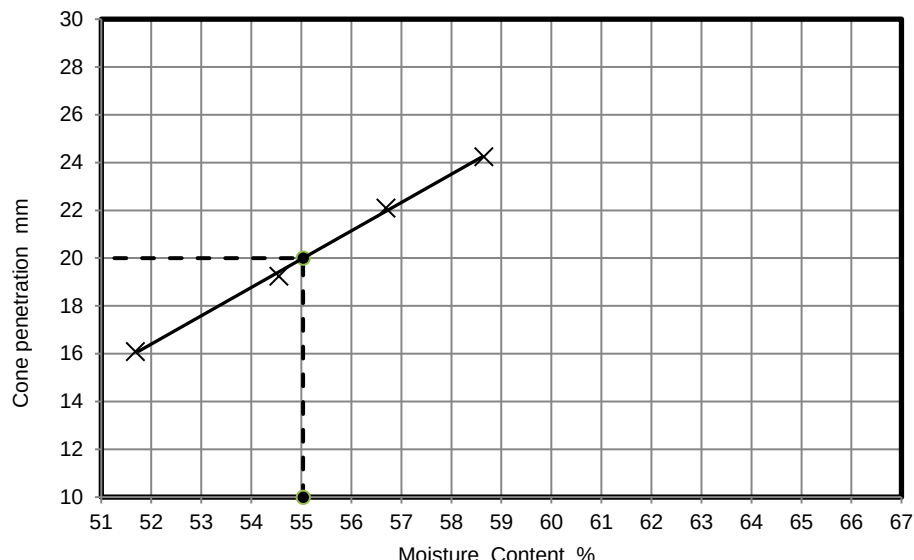
Dark grey slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

55

%

PLASTIC LIMIT

26

%

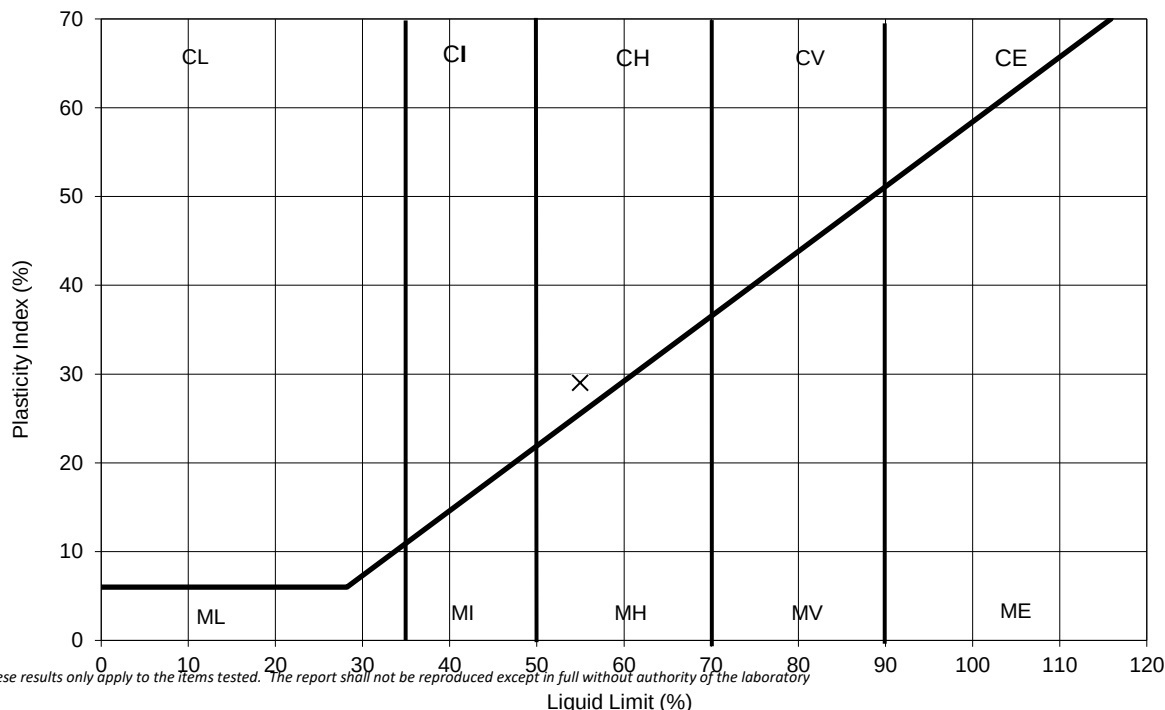
PLASTICITY INDEX

29

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. BH02

Site Name Phase 8A - Berewood

Sample No. 12

Project No. GE21512

Client

GESL

Depth Top 16.50 m

Depth Base - m

Sample Type D

Soil Description

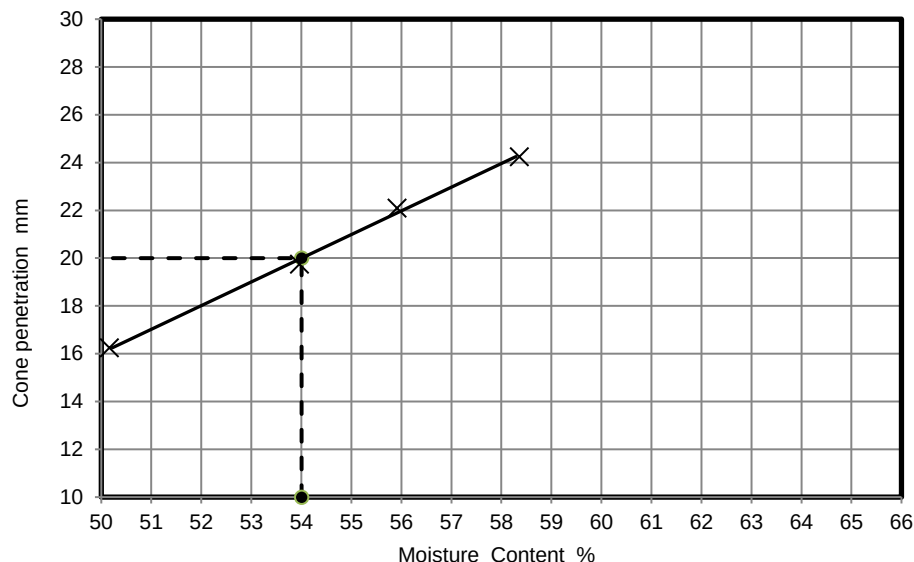
Dark grey slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

54

%

PLASTIC LIMIT

24

%

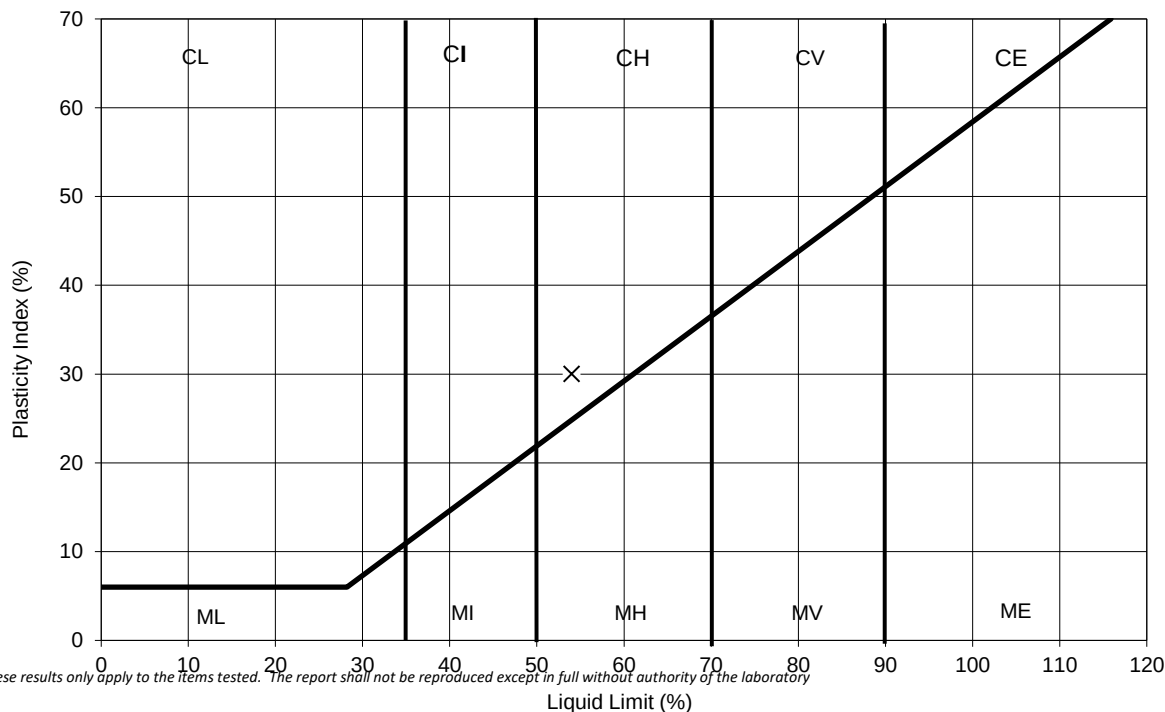
PLASTICITY INDEX

30

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP01

Site Name Phase 8A - Berewood

Sample No. 3

Project No. GE21512

Client

GESL

Depth Top 1.50 m

Depth Base - m

Sample Type D

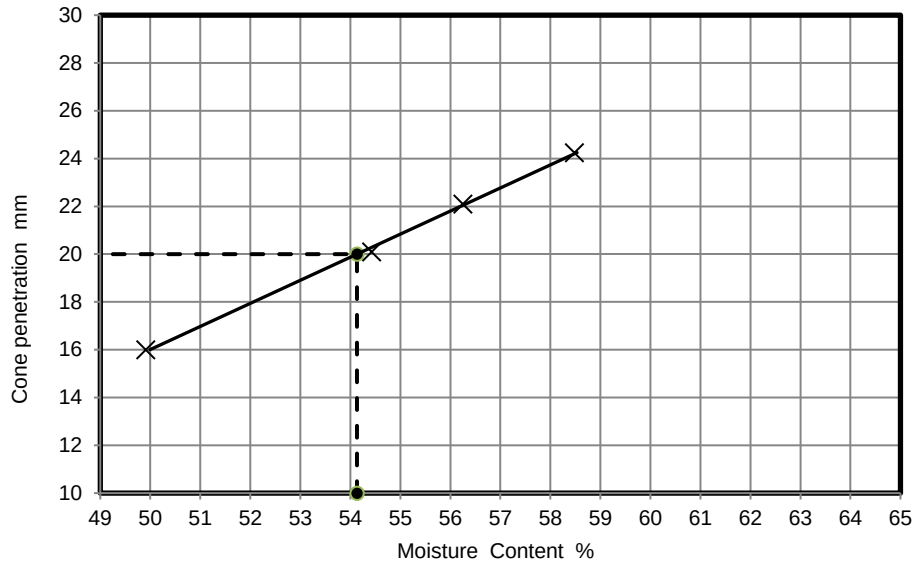
Soil Description Orangish brown slightly mottled light grey slightly sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

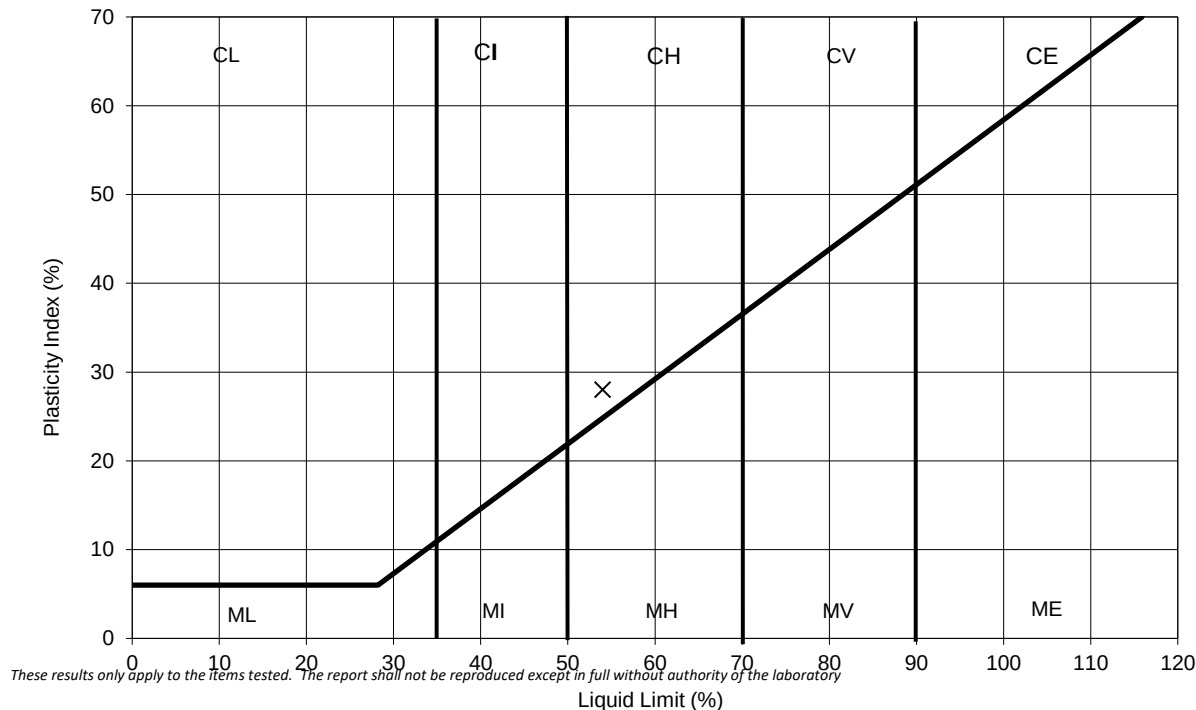
Date Tested 07/03/2023



NATURAL MOISTURE CONTENT	32	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	54	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	28	%

Remarks

PLASTICITY INDEX



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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

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Initials: J.P

Date: 09/03/2023

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP02

Site Name Phase 8A - Berewood

Sample No. 4

Project No. GE21512

Client

GESL

Depth Top 2.00 m

Depth Base - m

Sample Type D

Soil Description

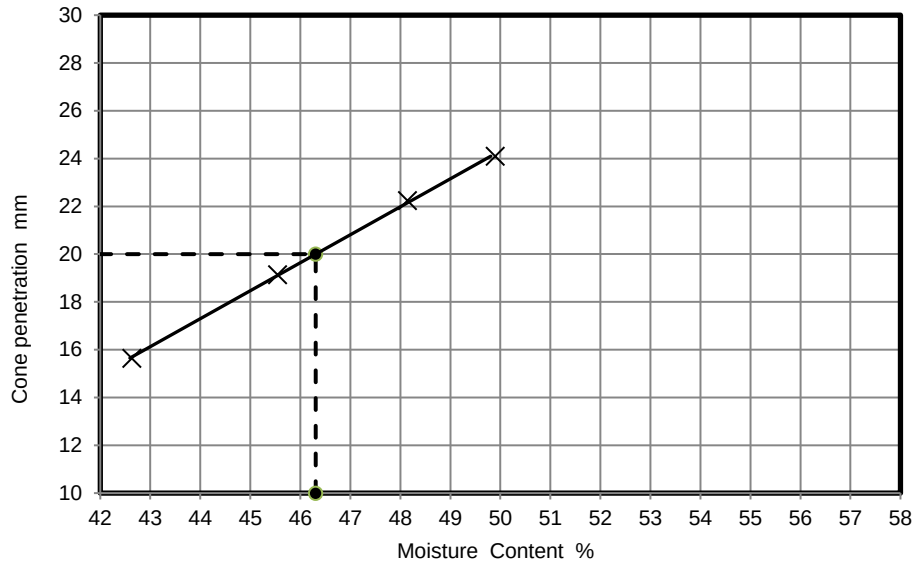
Orangish brown slightly mottled grey and occasional dark grey sandy silty CLAY with rare fine gravel

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

32 %

% PASSING 425µm SIEVE

99 %

LIQUID LIMIT

46 %

PLASTIC LIMIT

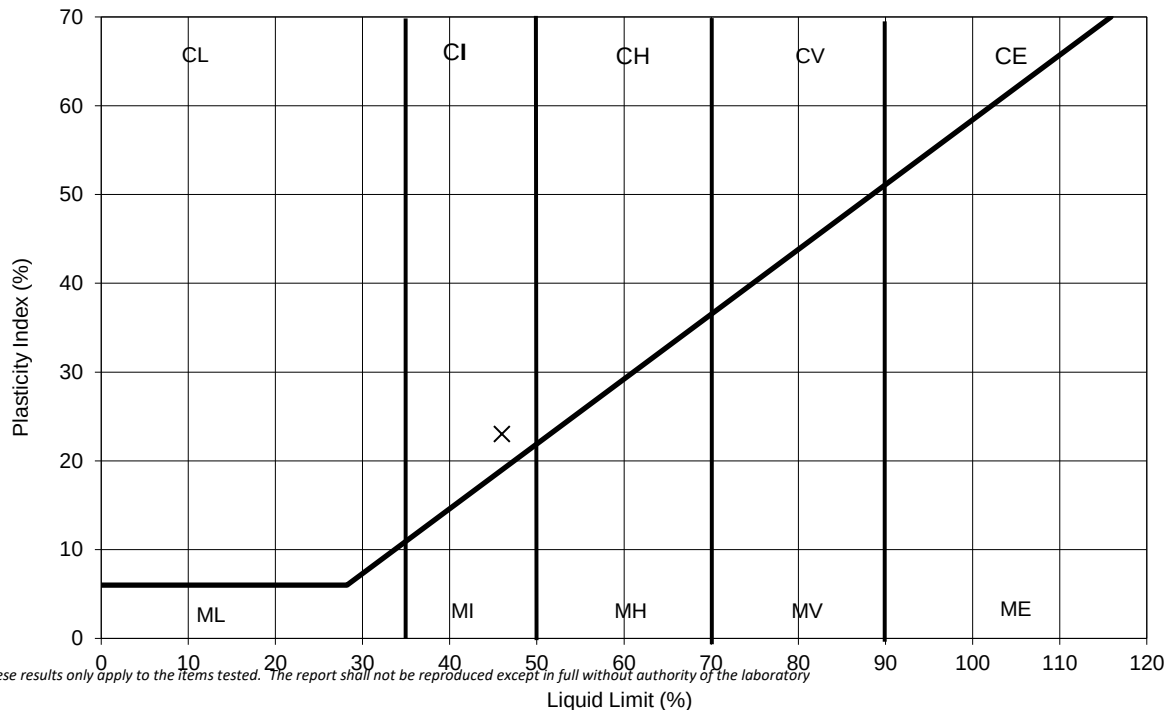
23 %

PLASTICITY INDEX

23 %

Remarks

PLASTICITY INDEX



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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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP04

Site Name Phase 8A - Berewood

Sample No. 2

Project No. GE21512

Client

GESL

Depth Top 1.00 m

Depth Base - m

Sample Type D

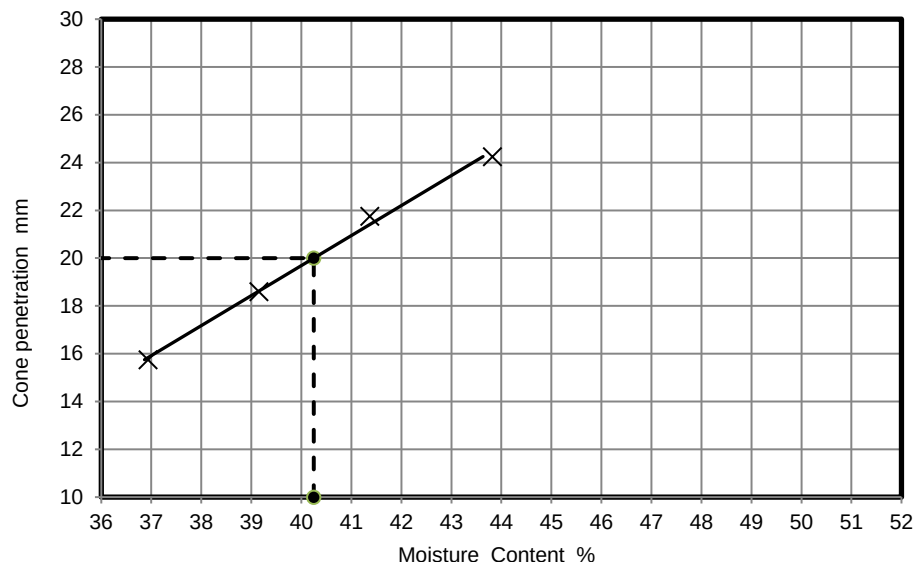
Soil Description Orangish brown slightly mottled grey sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

40

%

PLASTIC LIMIT

19

%

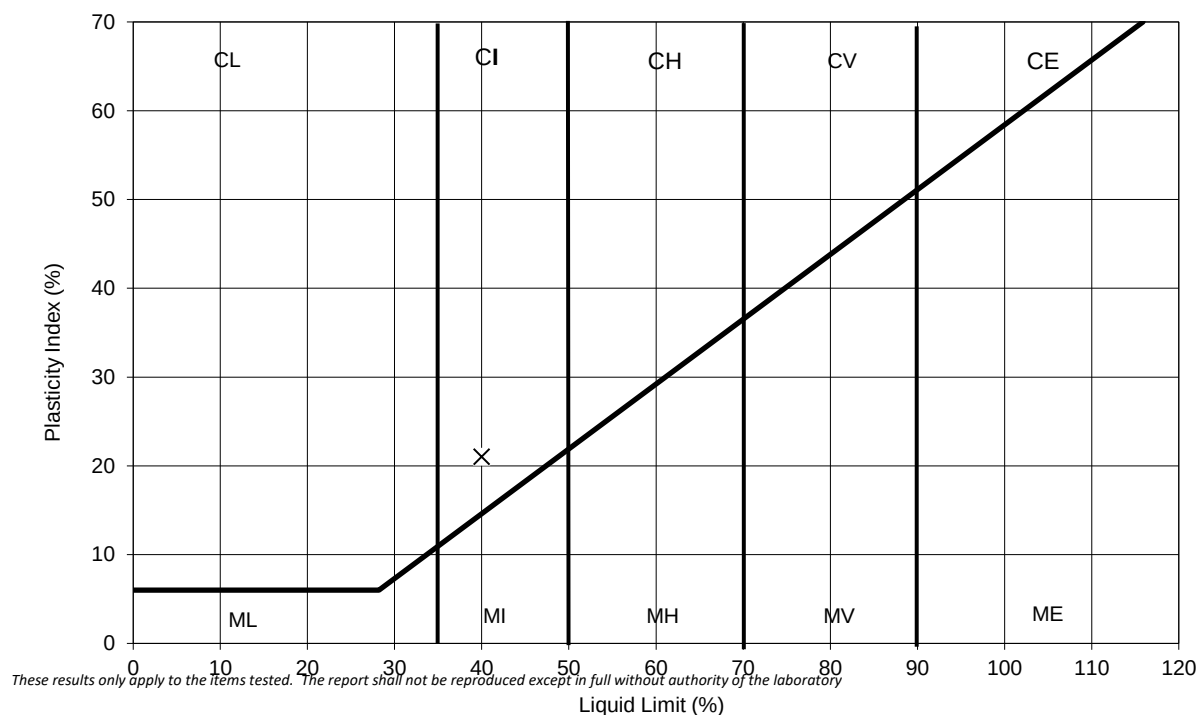
PLASTICITY INDEX

21

%

Remarks

PLASTICITY INDEX



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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

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Date: 09/03/2023

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP05

Site Name Phase 8A - Berewood

Sample No. 6

Project No. GE21512

Client

GESL

Depth Top 3.00 m

Depth Base - m

Sample Type D

Soil Description

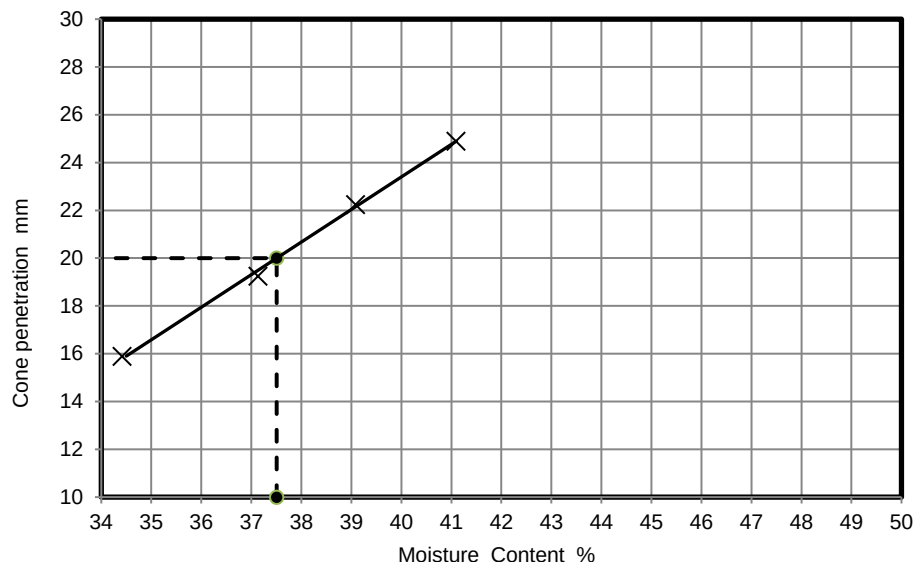
Light orangish brown slightly mottled light grey sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

18

%

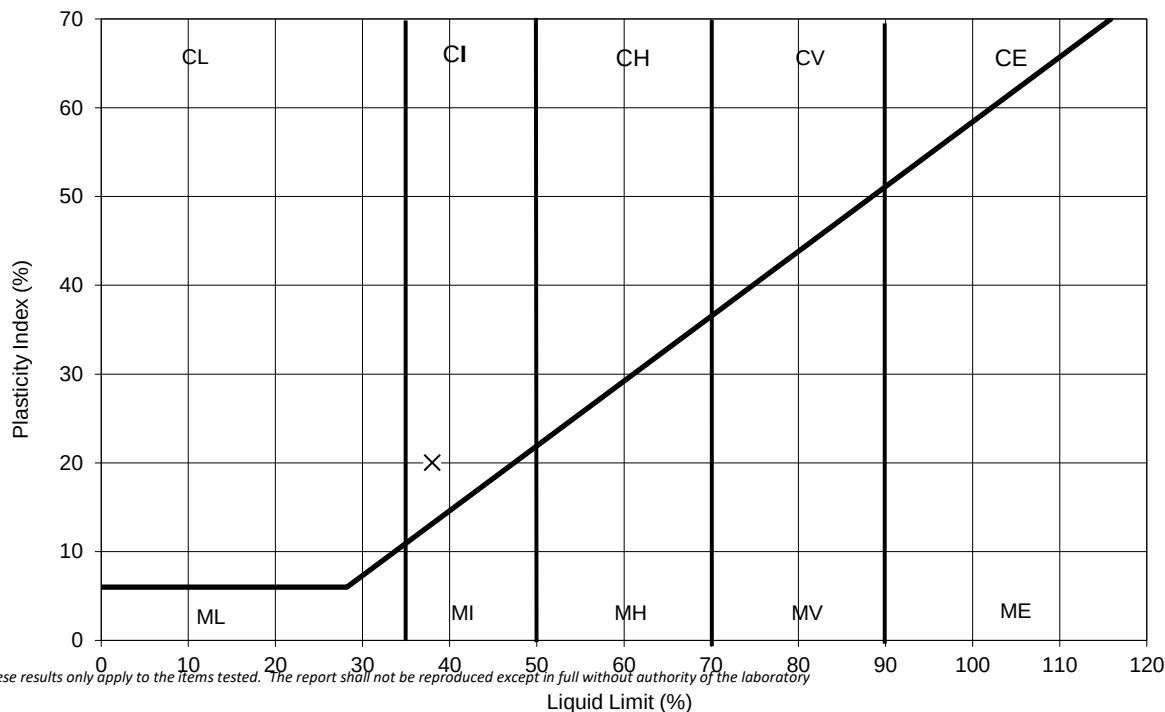
PLASTICITY INDEX

20

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP07

Site Name Phase 8A - Berewood

Sample No. 3

Project No. GE21512

Client

GESL

Depth Top 1.50 m

Depth Base - m

Sample Type D

Soil Description

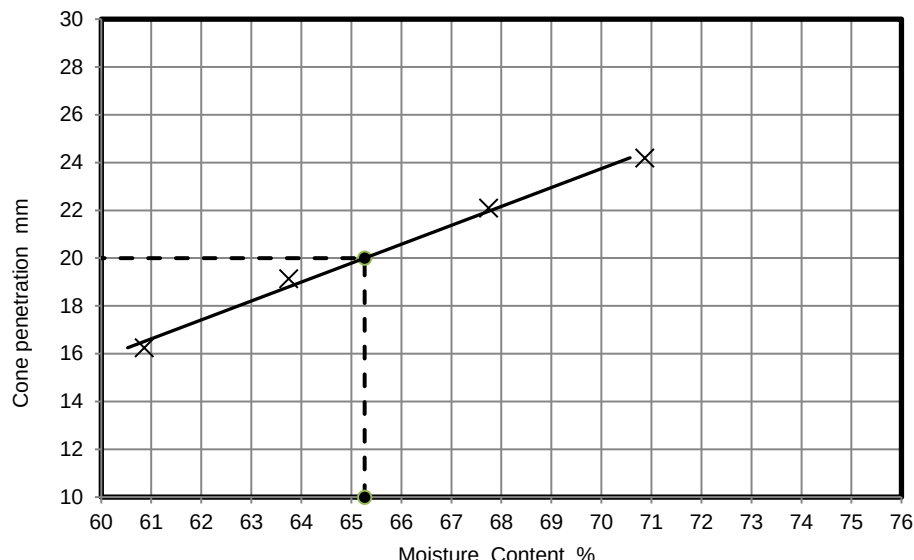
Light orangish brown slightly mottled bluish grey silty CLAY with rare fine gravel

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

35

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

65

%

PLASTIC LIMIT

25

%

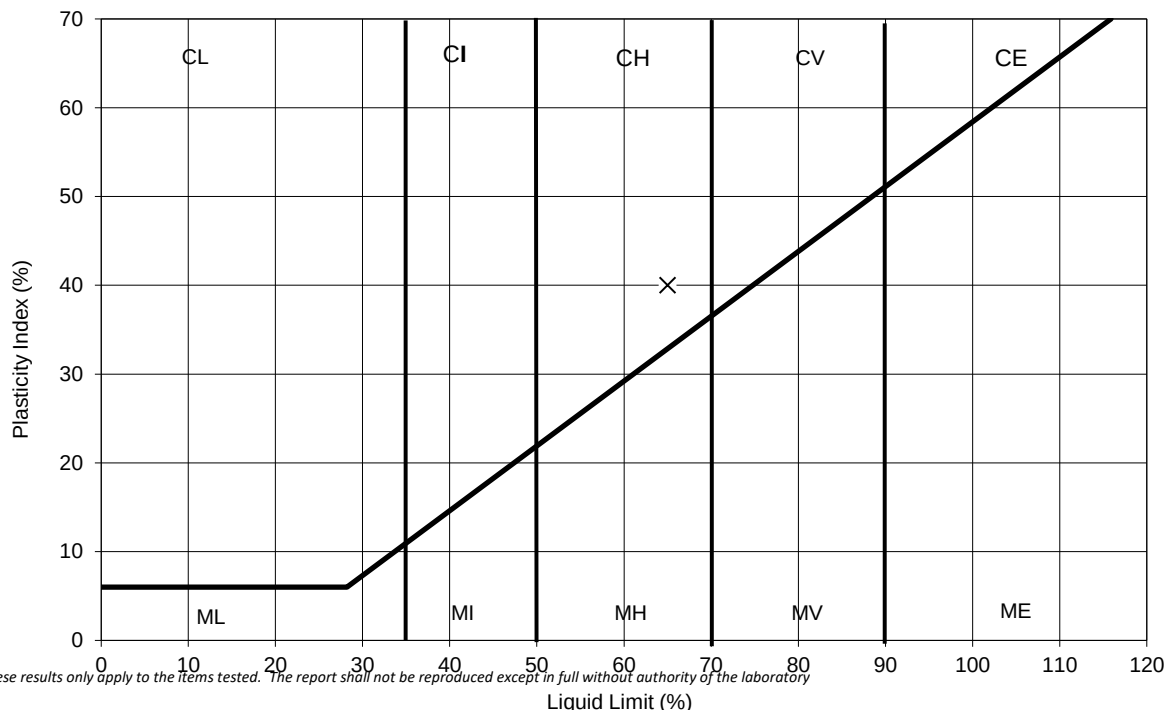
PLASTICITY INDEX

40

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. TP08

Site Name Phase 8A - Berewood

Sample No. 4

Project No. GE21512

Client

GESL

Depth Top 2.00 m

Depth Base - m

Sample Type D

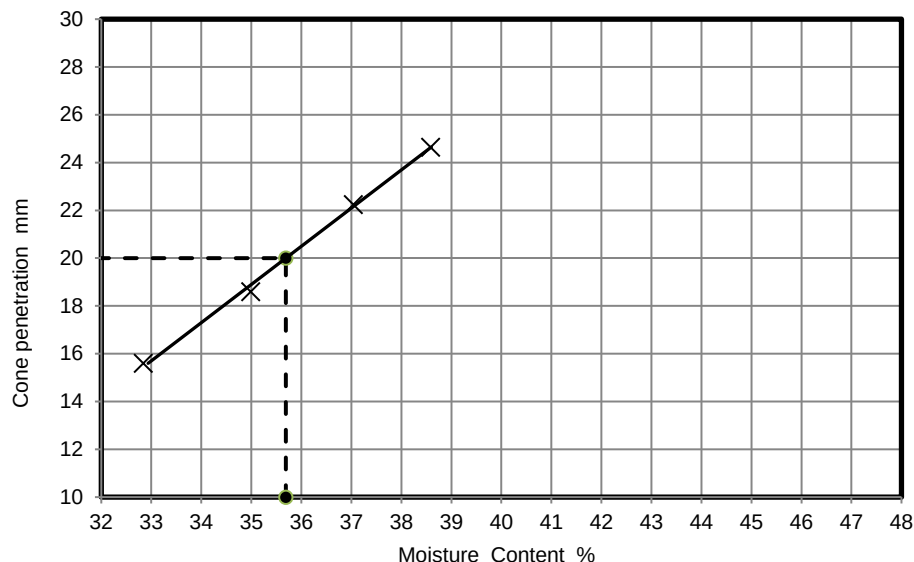
Soil Description Light orangish brown mottled light grey very sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

24

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

36

%

PLASTIC LIMIT

20

%

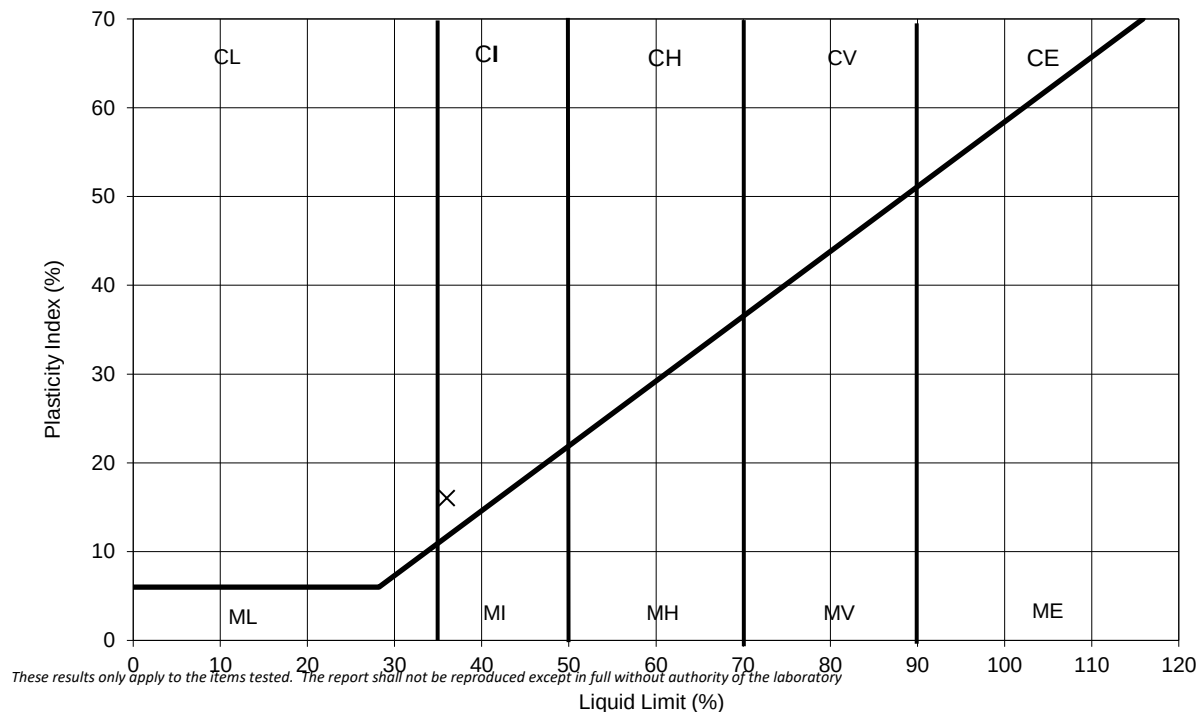
PLASTICITY INDEX

16

%

Remarks

PLASTICITY INDEX



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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

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Initials: J.P

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS01

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

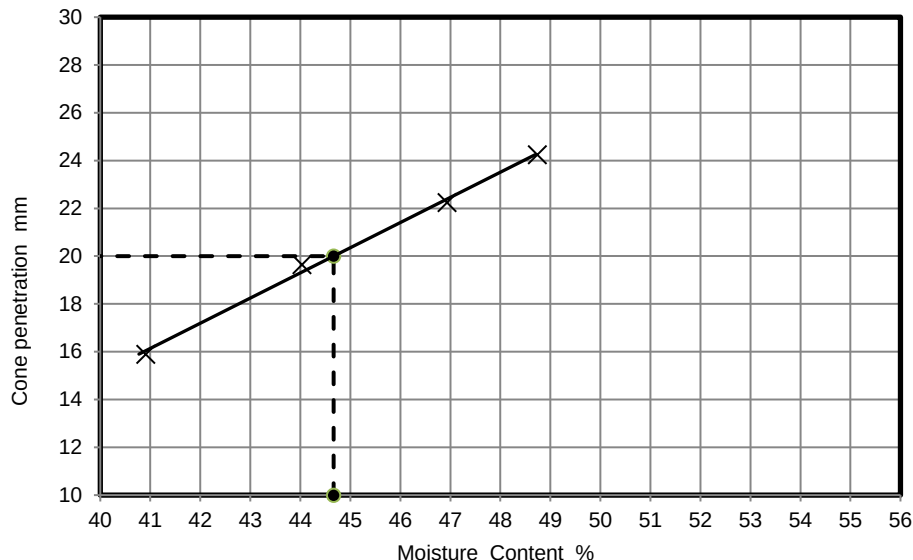
Light orangish brown slightly mottled grey sandy silty CLAY with rare fine gravel

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

45

%

PLASTIC LIMIT

21

%

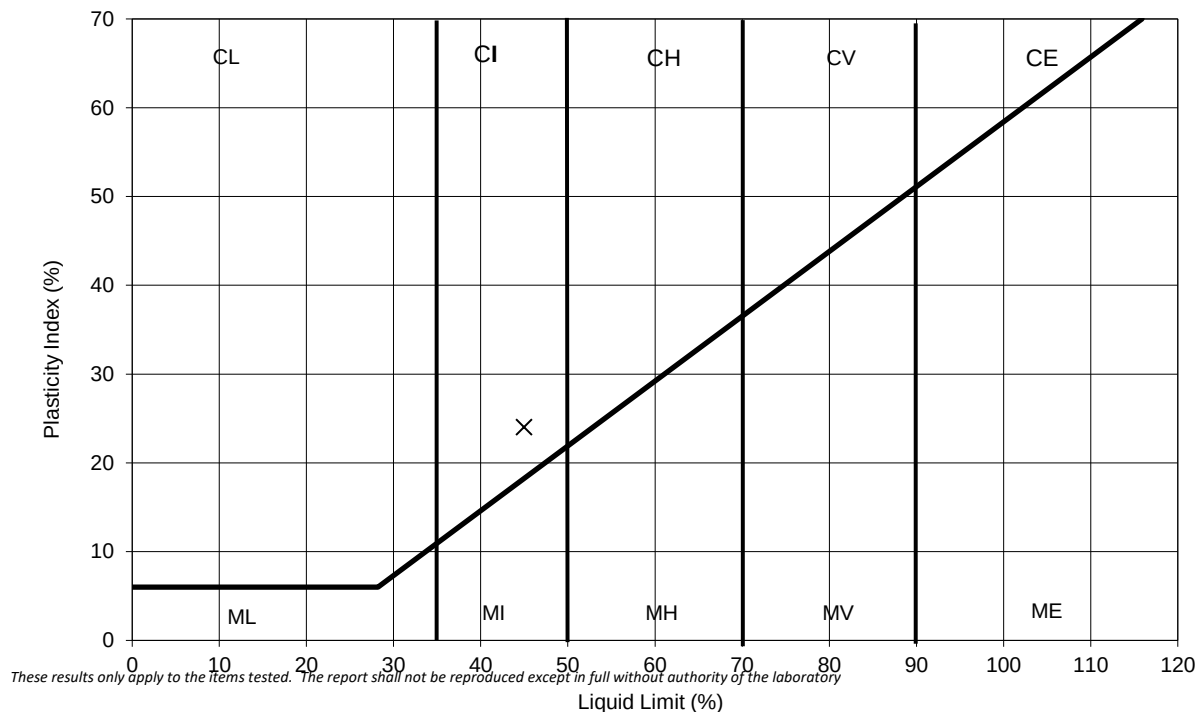
PLASTICITY INDEX

24

%

Remarks

PLASTICITY INDEX



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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

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS01

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 3.00 m

Depth Base - m

Sample Type D

Soil Description

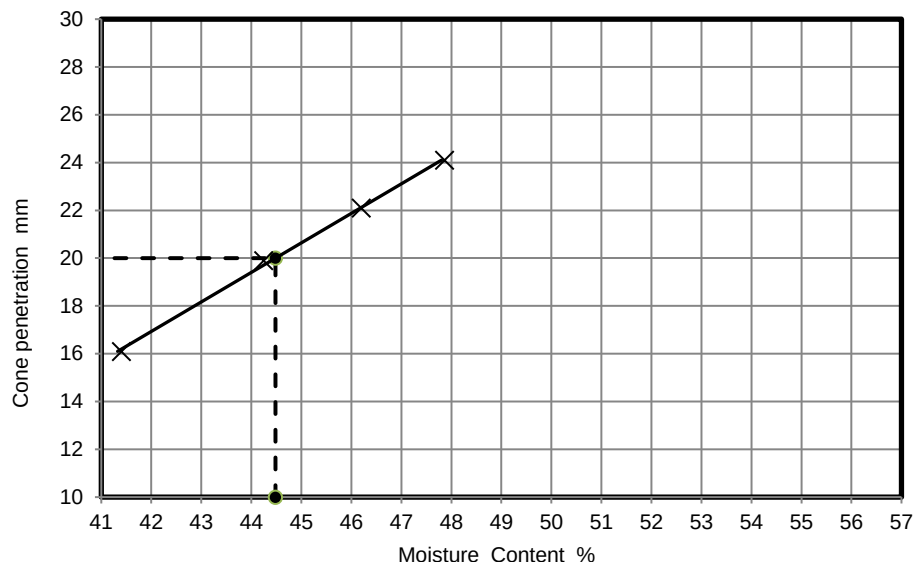
Dark grey sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

28

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

44

%

PLASTIC LIMIT

18

%

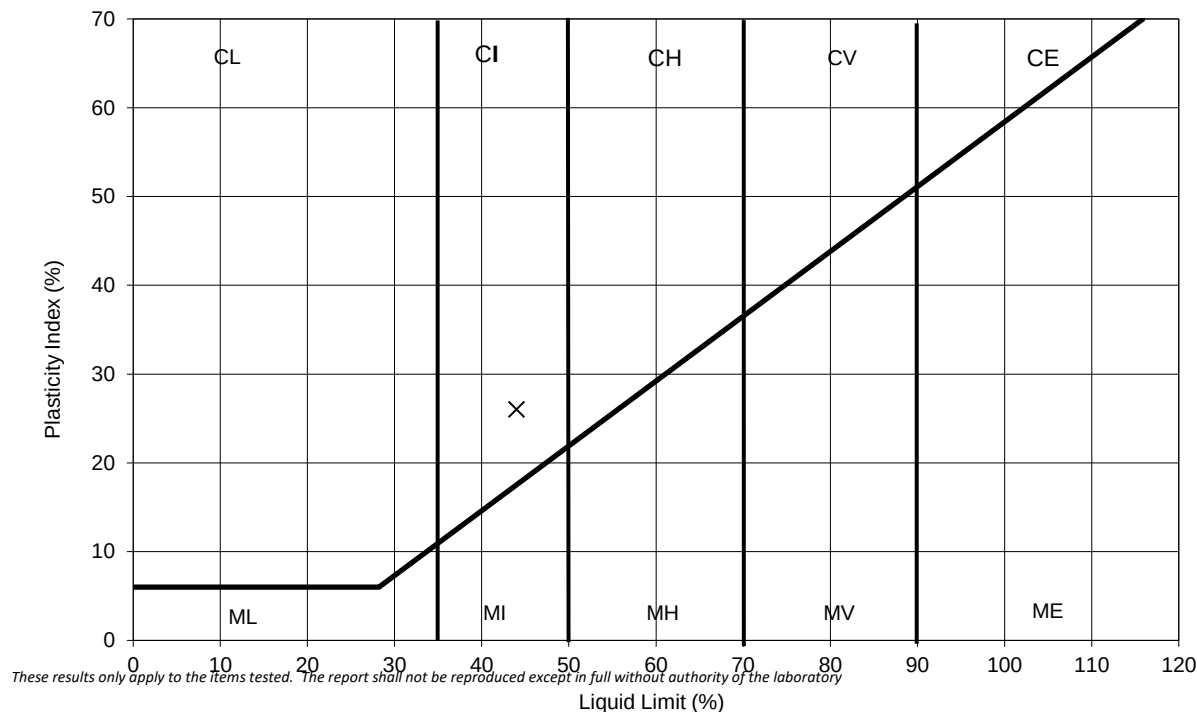
PLASTICITY INDEX

26

%

Remarks

PLASTICITY INDEX



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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

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Initials: J.P

Date: 09/03/2023

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MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS02

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 0.50 m

Depth Base - m

Sample Type D

Soil Description

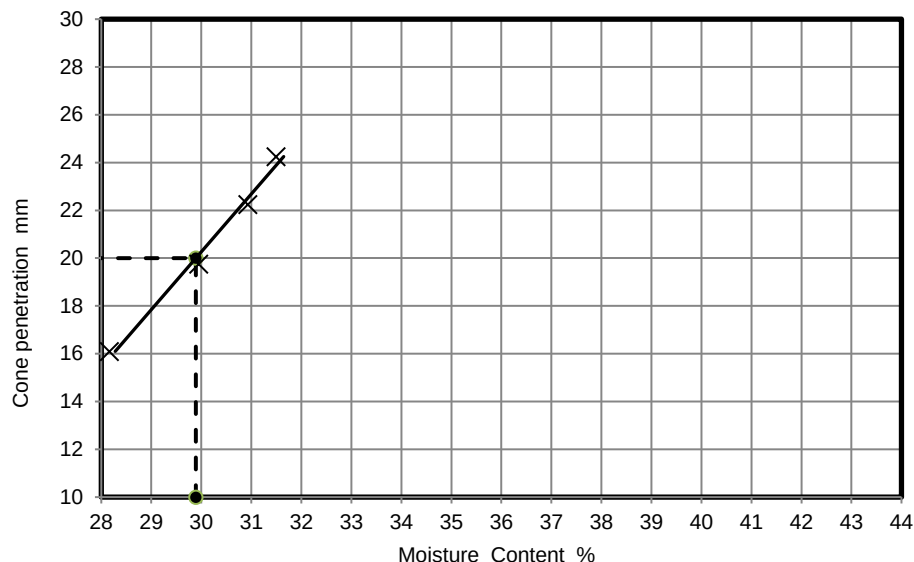
Orangish brown slightly mottled grey sandy silty CLAY with rare fine gravel

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

15 %

% PASSING 425µm SIEVE

99 %

LIQUID LIMIT

30 %

PLASTIC LIMIT

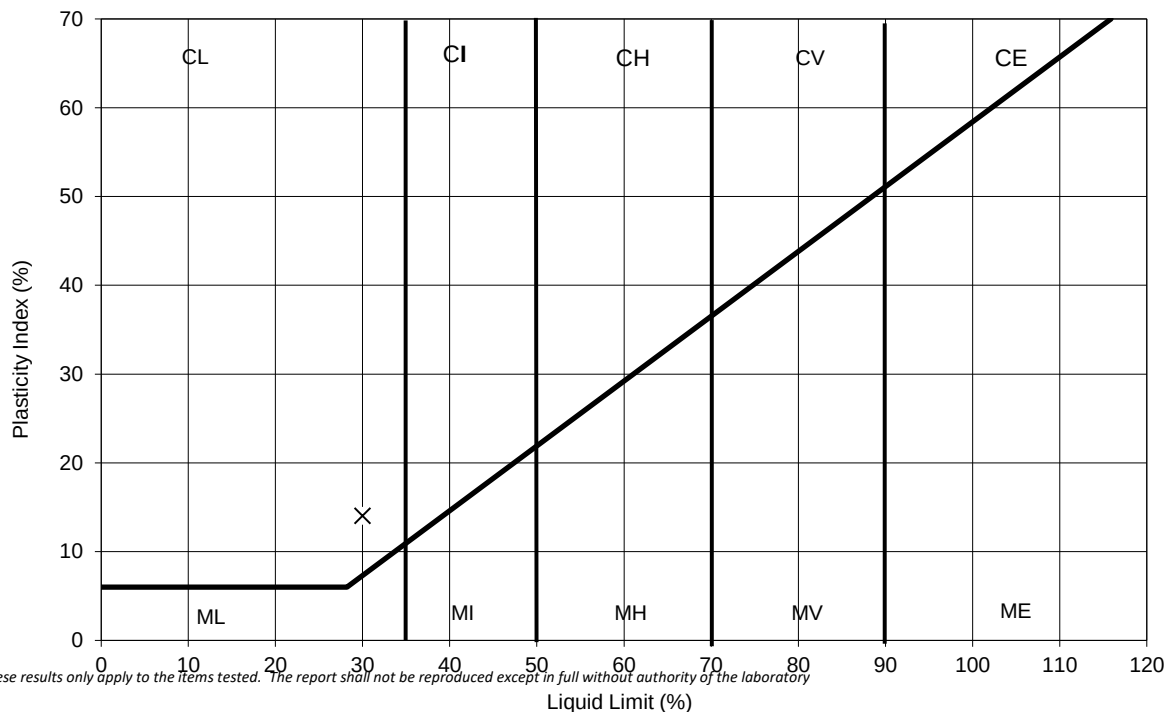
16 %

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: 09/03/2023

2519

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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS02

Site Name Phase 8A - Berewood

Sample No. 5

Project No. GE21512

Client

GESL

Depth Top 2.50 m

Depth Base - m

Sample Type D

Soil Description

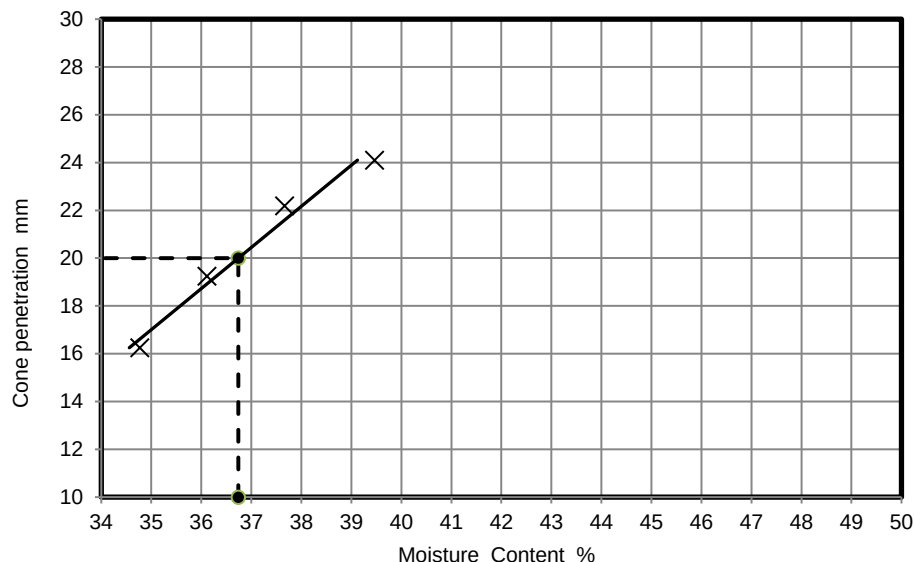
Orangish brown slightly mottled grey very sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

37

%

PLASTIC LIMIT

19

%

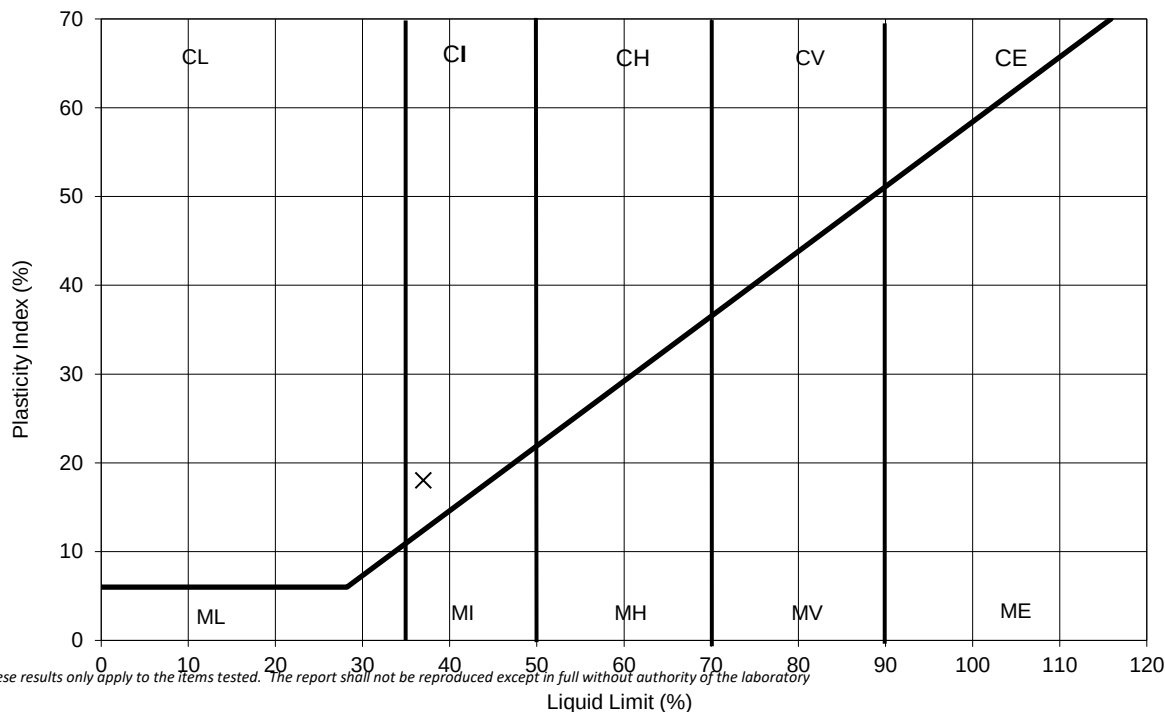
PLASTICITY INDEX

18

%

Remarks

PLASTICITY INDEX



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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

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Checked and Approved

Initials: J.P

Date: 09/03/2023

2519

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

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS03

Site Name Phase 8A - Berewood

Sample No. 1

Project No. GE21512

Client

GESL

Depth Top 1.50 m

Depth Base - m

Sample Type D

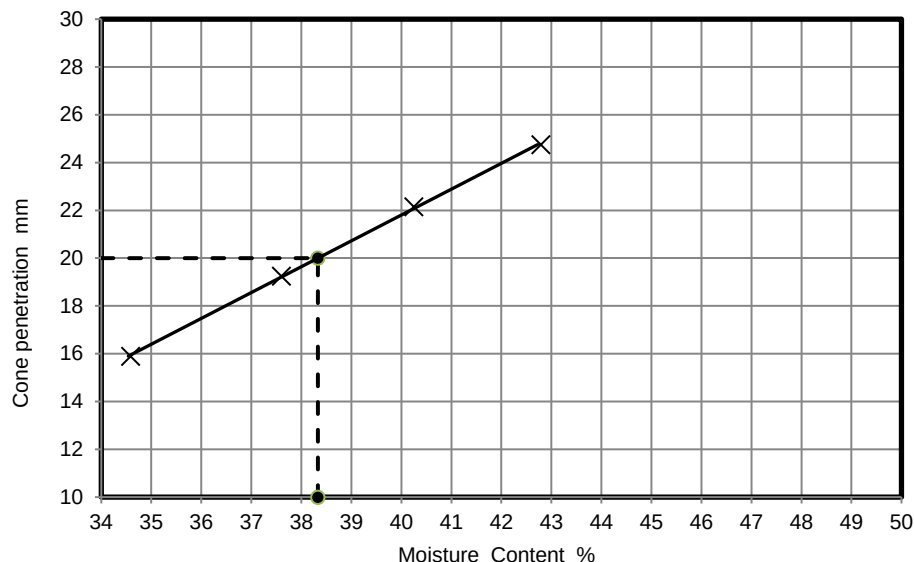
Soil Description Light orangish brown slightly mottled grey sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

26

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

38

%

PLASTIC LIMIT

20

%

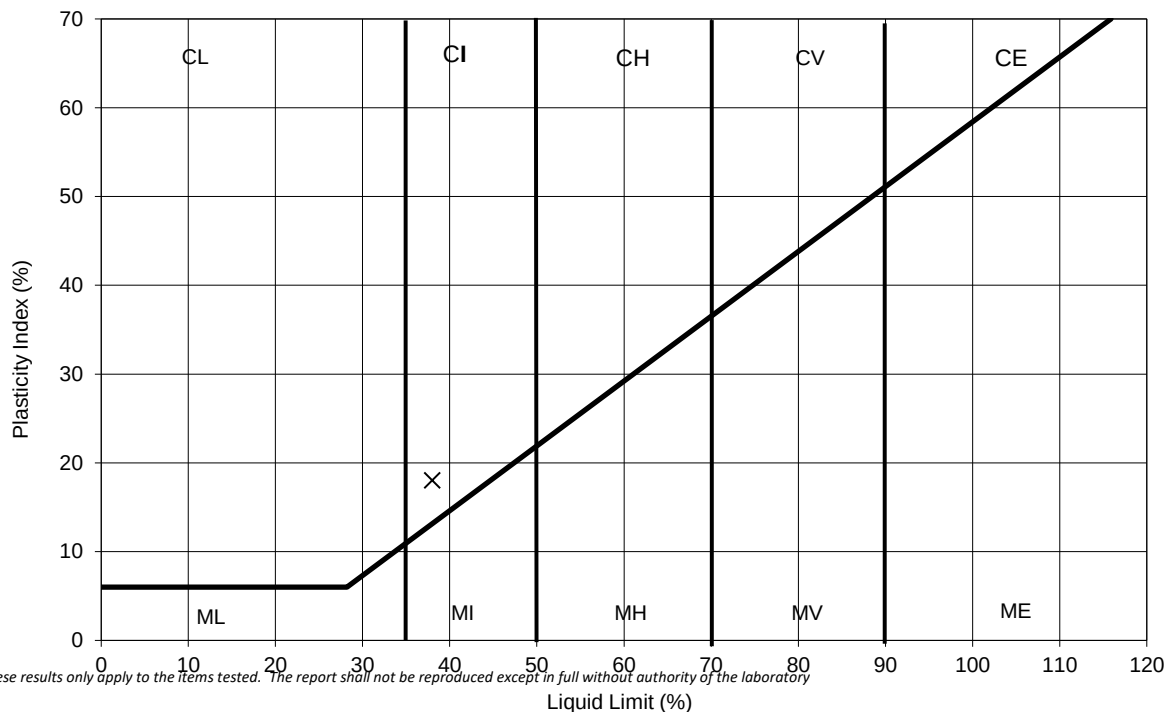
PLASTICITY INDEX

18

%

Remarks

PLASTICITY INDEX



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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

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Checked and Approved

Initials: J.P

Date: 09/03/2023

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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS05

Site Name Phase 8A - Berewood

Sample No. 5

Project No. GE21512

Client

GESL

Depth Top 2.50 m

Depth Base - m

Sample Type D

Soil Description

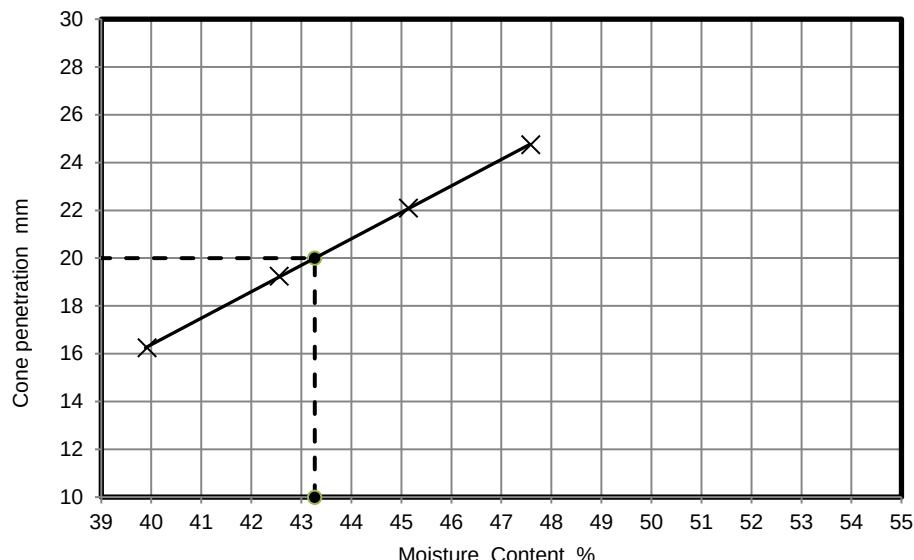
Orangish brown slightly mottled grey sandy silty CLAY with occasional siltstone fragments

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

22

%

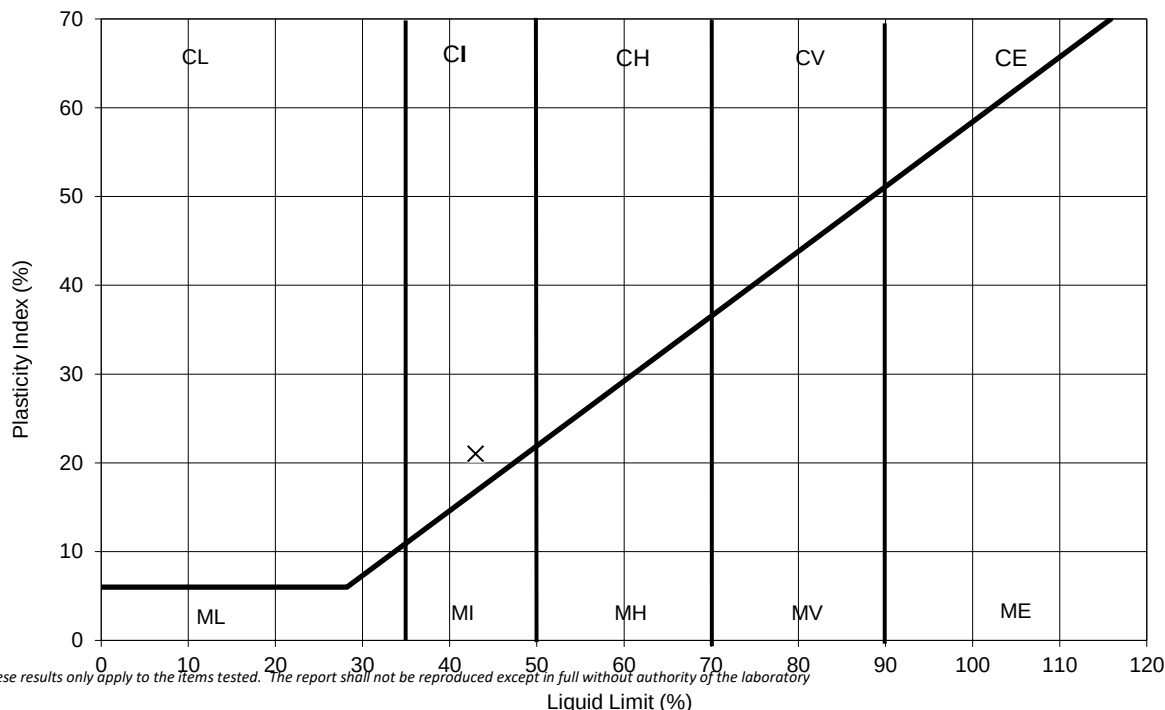
PLASTICITY INDEX

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: 09/03/2023

2519

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

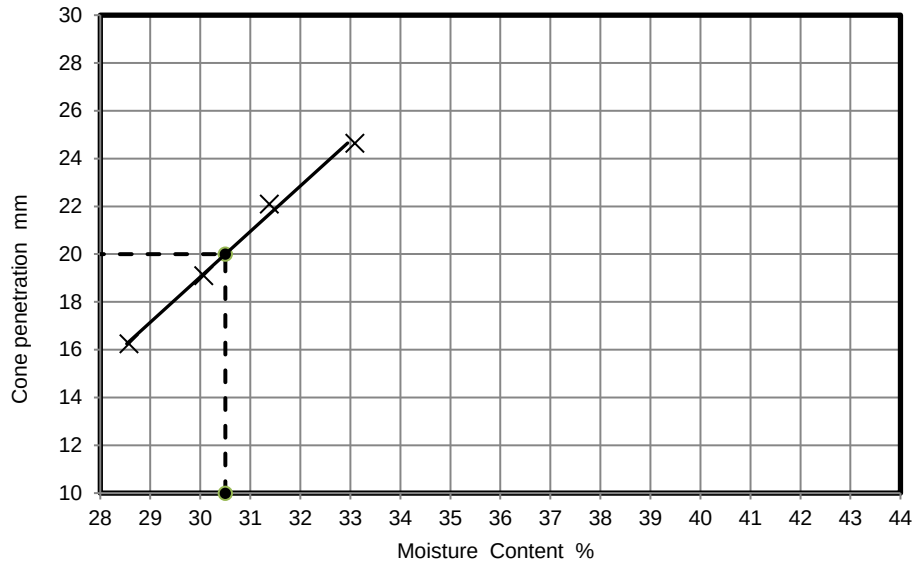
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	33037
Borehole/Pit No.	WS06
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	21/02/2023
Schedules received	21/02/2023
Project Started	22/02/2023
Date Tested	07/03/2023

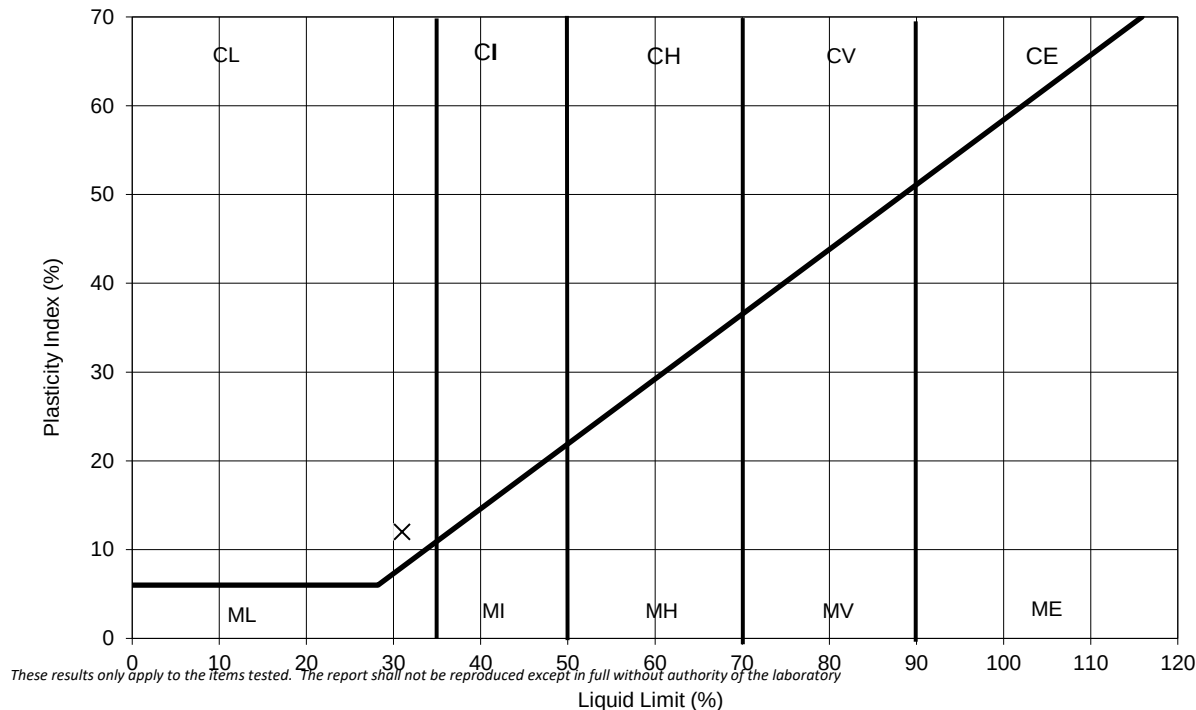
Site Name	Phase 8A - Berewood		
Project No.	GE21512	Client	GESL
Soil Description	Dark greyish brown slightly gravelly sandy silty CLAY (gravel is fm and sub-angular to rounded)		



NATURAL MOISTURE CONTENT	18	%
% PASSING 425µm SIEVE	95	%
LIQUID LIMIT	31	%
PLASTIC LIMIT	19	%
PLASTICITY INDEX	12	%

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: 09/03/2023

2519

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

MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33037

Borehole/Pit No. WS06

Site Name Phase 8A - Berewood

Sample No. 5

Project No. GE21512

Client

GESL

Depth Top 2.50 m

Depth Base - m

Sample Type D

Soil Description

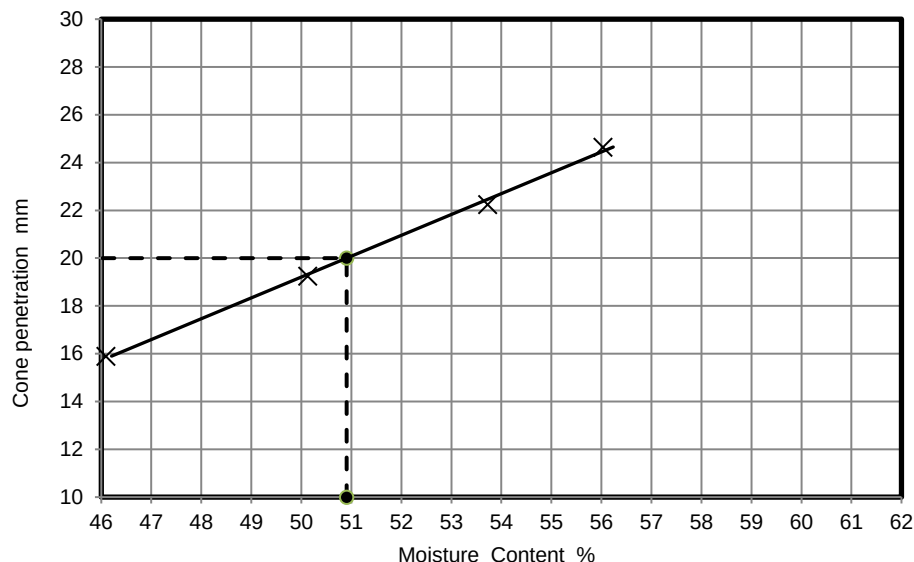
Orangish brown slightly mottled grey sandy silty CLAY

Samples received 21/02/2023

Schedules received 21/02/2023

Project Started 22/02/2023

Date Tested 07/03/2023



NATURAL MOISTURE CONTENT

34

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

51

%

PLASTIC LIMIT

24

%

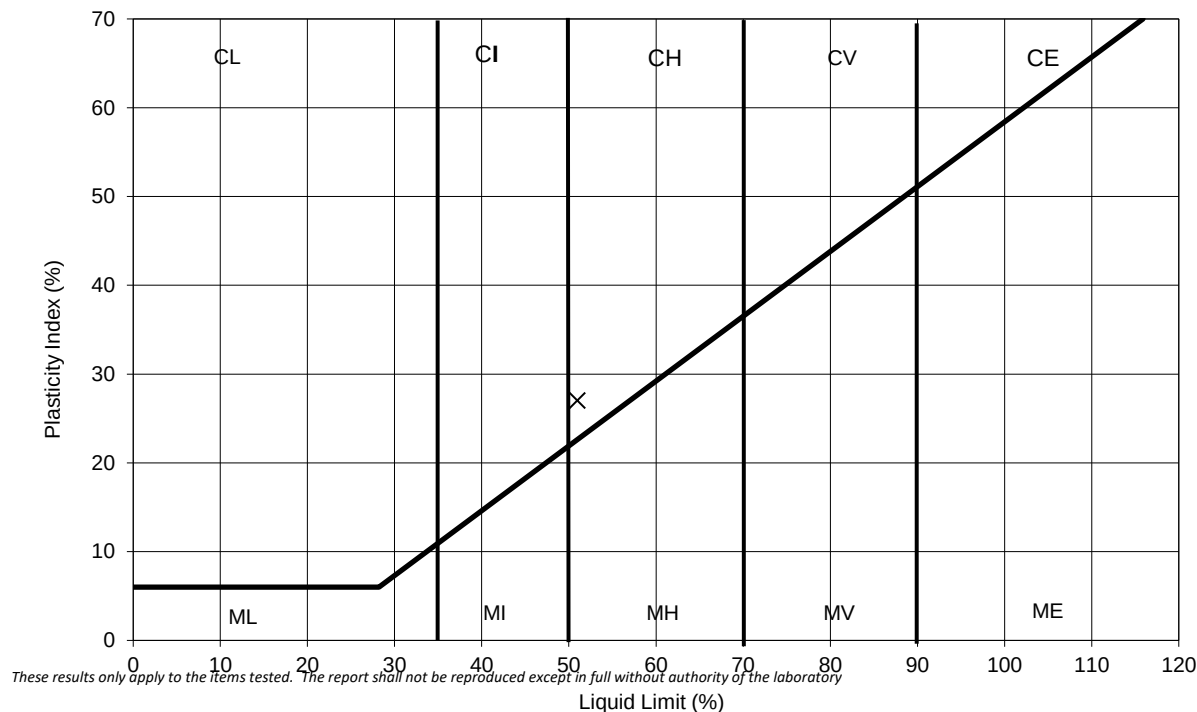
PLASTICITY INDEX

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

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Checked and Approved

Initials: J.P

Date: 09/03/2023

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

MSF-5 R2



		Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results									
Job No.		Project Name						Programme			
33037		Phase 8A - Berewood						Samples received	21/02/2023		
Project No.		Client						Schedule received	21/02/2023		
GE21512		GESL						Project started	22/02/2023		
								Testing Started	07/03/2023		
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
BH01	1	4.45	-	D	Dark grey and occasional brown sandy silty CLAY	25	100	52	26	26	
BH01	1	7.50	-	D	Dark grey and occasional brown slightly sandy silty CLAY	25	100	57	24	33	
BH01	1	12.00	-	D	Dark grey and occasional brown slightly sandy silty CLAY	30	100	56	24	32	
BH02	2	5.45	-	D	Orangish brown slightly mottled grey slightly sandy silty CLAY	31	100	59	25	34	
BH02	12	11.45	-	D	Dark grey slightly sandy silty CLAY	24	100	55	26	29	
BH02	12	16.50	-	D	Dark grey slightly sandy silty CLAY	24	100	54	24	30	
TP01	3	1.50	-	D	Orangish brown slightly mottled light grey slightly sandy silty CLAY	32	100	54	26	28	
TP02	4	2.00	-	D	Orangish brown slightly mottled grey and occasional dark grey sandy silty CLAY with rare fine gravel	32	99	46	23	23	
TP04	2	1.00	-	D	Orangish brown slightly mottled grey sandy silty CLAY	24	100	40	19	21	
TP05	6	3.00	-	D	Light orangish brown slightly mottled light grey sandy silty CLAY	25	100	38	18	20	
TP07	3	1.50	-	D	Light orangish brown slightly mottled bluish grey silty CLAY with rare fine gravel	35	99	65	25	40	
TP08	4	2.00	-	D	Light orangish brown mottled light grey very sandy silty CLAY	24	100	36	20	16	
 Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3, 4.4 and 5.0 <i>These results only apply to the items tested</i> NOTE: The report shall not be reproduced except in full without authority of the laboratory						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: 09/03/2023
2519						Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)					MSF-5-R1

					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name				Programme					
33037		Phase 8A - Berewood				Samples received		21/02/2023			
Project No.		Client				Schedule received		21/02/2023			
GE21512		GESL				Project started		22/02/2023			
						Testing Started		07/03/2023			
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
WS01	1	0.50	-	D	Light orangish brown slightly mottled grey sandy silty CLAY with rare fine gravel	25	99	45	21	24	
WS01	1	3.00	-	D	Dark grey sandy silty CLAY	28	100	44	18	26	
WS02	1	0.50	-	D	Orangish brown slightly mottled grey sandy silty CLAY with rare fine gravel	15	99	30	16	14	
WS02	5	2.50	-	D	Orangish brown slightly mottled grey very sandy silty CLAY	25	100	37	19	18	
WS03	1	1.50	-	D	Light orangish brown slightly mottled grey sandy silty CLAY	26	100	38	20	18	
WS05	5	2.50	-	D	Orangish brown slightly mottled grey sandy silty CLAY with occasional siltstone fragments	22	100	43	22	21	
WS06	1	0.50	-	D	Dark greyish brown slightly gravelly sandy silty CLAY (gravel is fm and sub-angular to rounded)	18	95	31	19	12	
WS06	5	2.50	-	D	Orangish brown slightly mottled grey sandy silty CLAY	34	100	51	24	27	

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3, 4.4 and 5.0 <i>These results only apply to the items tested</i> NOTE: The report shall not be reproduced except in full without authority of the laboratory	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: 09/03/2023
	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		
	MSF-5-R1		
	2519		



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TN38 9BY
Telephone: (01424) 718618

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info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-47036

Issue: 1

Date of Issue: 08/03/2023

Contact: James Phaure

Customer Details: K4 Soils Laboratory Ltd
Unit 8
Watford
Hertfordshire WD18 9RU

Quotation No: Q22-03477

Order No: 33037

Customer Reference: General Quote 2022

Date Received: 03/03/2023

Date Approved: 08/03/2023

Details: Phase 8A - Berewood

Approved by:

Tim Reeve, Quality Officer

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.: 23-47036, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
314014	BH01 5.45	Not Provided	03/03/2023	Clayey loam	a
314015	BH01 9.00	Not Provided	03/03/2023	Clayey loam	a
314016	BH02 7.50	Not Provided	03/03/2023	Clayey loam	a
314017	BH02 13.50	Not Provided	03/03/2023	Sandy silty loam	a

Results Summary

Report No.: 23-47036, issue number 1

ELAB Reference	314014	314015	314016	314017
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	BH01	BH01	BH02	BH02
Sample Depth (m)	5.45	9.00	7.50	13.50
Sampling Date	Not Provided	Not Provided	Not Provided	Not Provided
Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Moisture Content	N	%	0.1	18.0
Stones Content	N	%	0.1	27.1
Material removed	N	%	0.1	27.1
Description of Inert material removed	N		0	None
Anions				
Water Soluble Chloride	M	mg/kg	40	47
Water Soluble Nitrate	M	mg/kg	40	< 40
Water Soluble Sulphate	M	g/l	0.02	0.10
Water Soluble Sulphate	M	mg/kg	40	209
Inorganics				
Ammonia as NH ₄	N	mg/kg	0.1	< 0.1
Total Sulphur	N	%	0.01	0.40
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.06
Miscellaneous				
pH	M	pH units	0.1	8.1



Method Summary

Report No.: 23-47036, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	07/03/2023	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	08/03/2023	115	Ion Chromatography
Ammonia in soil	N	As submitted sample	07/03/2023	138	Colorimetry
Water soluble anions	M	Air dried sample	07/03/2023	172	Ion Chromatography
Total organic carbon/Total sulphur	N	Air dried sample	07/03/2023	216	IR

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-47036, 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

APPENDIX D

Geochemical Laboratory Results





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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-46883

Issue: 1

Date of Issue: 06/03/2023

Contact: Thomas Morgan

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q22-03510

Order No: 6100

Customer Reference: GE21512

Date Received: 22/02/2023

Date Approved: 06/03/2023

Details: Berewood Phase 8a

Approved by:

Tim Reeve, Quality Officer

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.: 23-46883, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
313161	BH01 10.50	30/01/2023	22/02/2023		
313162	BH02 9.50	30/01/2023	22/02/2023		
313163	TP01 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313164	TP01 0.50	30/01/2023	22/02/2023	Silty clayey loam	
313165	TP02 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313166	TP02 0.40	30/01/2023	22/02/2023		
313167	TP03 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313168	TP03 0.50	30/01/2023	22/02/2023	Silty clayey loam	
313169	TP04 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313170	TP04 0.40	30/01/2023	22/02/2023		
313171	TP05 0.10	30/01/2023	22/02/2023	Sandy silty loam	
313172	TP05 0.50	30/01/2023	22/02/2023	Sandy loam	fg
313173	TP06 0.10	30/01/2023	22/02/2023		
313174	TP06 0.70	30/01/2023	22/02/2023	Silty clayey loam	
313175	TP07 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313176	TP07 0.40	30/01/2023	22/02/2023	Silty clayey loam	
313177	TP08 0.10	30/01/2023	22/02/2023		
313178	TP08 0.40	30/01/2023	22/02/2023	Silty clayey loam	fg
313179	TP09 0.20	30/01/2023	22/02/2023	Silty clayey loam	fg
313180	TP10 0.30	30/01/2023	22/02/2023		
313181	WS01 0.10	30/01/2023	22/02/2023		
313182	WS01 0.30	30/01/2023	22/02/2023	Sandy loam	fg
313183	WS02 0.10	30/01/2023	22/02/2023		
313184	WS02 0.80	30/01/2023	22/02/2023	Sandy silty loam	fg
313185	WS03 0.10	30/01/2023	22/02/2023		
313186	WS03 0.40	30/01/2023	22/02/2023		
313187	WS05 0.30	30/01/2023	22/02/2023	Sandy silty loam	fg
313188	WS05 0.80	30/01/2023	22/02/2023		
313189	WS06 0.10	30/01/2023	22/02/2023	Sandy silty loam	fg
313190	WS06 0.70	30/01/2023	22/02/2023		



Results Summary

Report No.: 23-46883, issue number 1

ELAB Reference				313163	313164	313165	313167	313168	313169	313171	313172	313174
Customer Reference												
Sample ID												
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP01	TP01	TP02	TP03	TP03	TP04	TP05	TP05	TP06
Sample Depth (m)				0.10	0.50	0.10	0.10	0.50	0.10	0.10	0.50	0.70
Sampling Date				30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023
Determinand	Codes	Units	LOD									
Soil sample preparation parameters												
Moisture Content	N	%	0.1	13.7	19.7	11.0	14.4	19.3	11.6	n/t	17.6	22.3
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None	None	n/t	None	None
Metals												
Arsenic	M	mg/kg	1	7.2	n/t	6.5	6.6	n/t	5.5	n/t	7.0	n/t
Beryllium	U	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
Cadmium	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5	n/t	< 0.5	n/t	< 0.5	n/t
Chromium	M	mg/kg	5	19.1	n/t	13.8	17.6	n/t	12.3	n/t	16.3	n/t
Copper	M	mg/kg	5	17.8	n/t	35.9	21.9	n/t	11.6	n/t	6.8	n/t
Lead	M	mg/kg	5	23.4	n/t	26.7	25.7	n/t	22.1	n/t	7.4	n/t
Water soluble magnesium	N	g/l	0.01	n/t	< 0.01	n/t	n/t	< 0.01	n/t	n/t	n/t	< 0.01
Mercury	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5	n/t	< 0.5	n/t	< 0.5	n/t
Nickel	M	mg/kg	5	9.1	n/t	6.5	12.0	n/t	6.0	n/t	< 5.0	n/t
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
Vanadium	M	mg/kg	5	26.8	n/t	20.4	25.6	n/t	18.3	n/t	25.7	n/t
Zinc	M	mg/kg	5	37.6	n/t	34.7	44.6	n/t	30.9	n/t	15.6	n/t
Anions												
Water Soluble Chloride	M	mg/l	20	n/t	41	n/t	n/t	21	n/t	n/t	n/t	27
Water Soluble Chloride	M	mg/kg	40	53	n/t	197	46	n/t	42	n/t	44	n/t
Water Soluble Nitrate	U	mg/l	20	n/t	< 20	n/t	n/t	< 20	n/t	n/t	n/t	< 20
Water Soluble Sulphate	M	g/l	0.02	0.03	0.02	< 0.02	< 0.02	< 0.02	< 0.02	n/t	< 0.02	0.02
Inorganics												
Elemental Sulphur	M	mg/kg	20	< 20	n/t	< 20	< 20	n/t	< 20	n/t	< 20	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	< 0.8	n/t	< 0.8	n/t	< 0.8	n/t
Total Sulphide	N	mg/kg	2	g < 2	n/t	g < 2	g < 2	n/t	g < 2	n/t	g < 2	n/t
Total Cyanide	M	mg/kg	1	f < 1.0	n/t	f < 1.0	f < 1.0	n/t	f < 1.0	n/t	f < 1.0	n/t
Total Sulphur	N	%	0.01	n/t	0.02	n/t	0.02	n/t	0.02	n/t	n/t	0.01
Acid Soluble Sulphate (SO4)	U	%	0.02	0.04	0.03	0.03	0.03	0.02	0.03	n/t	0.02	0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5	n/t	0.6	0.8	n/t	0.6	n/t	< 0.5	n/t
Miscellaneous												
pH	M	pH units	0.1	6.9	7.3	7.3	6.9	7.5	6.9	n/t	7.3	7.6
Total Organic Carbon	N	%	0.01	0.64	n/t	0.95	1.5	n/t	0.73	n/t	0.22	n/t
Phenols												
Total Phenols	N	mg/kg	6	f < 6	n/t	f < 6	f < 6	n/t	f < 6	n/t	f < 6	n/t



Results Summary

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ELAB Reference				313163	313164	313165	313167	313168	313169	313171	313172	313174
Customer Reference												
Sample ID												
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP01	TP01	TP02	TP03	TP03	TP04	TP05	TP05	TP06
Sample Depth (m)				0.10	0.50	0.10	0.10	0.50	0.10	0.10	0.50	0.70
Sampling Date				30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023
Determinand	Codes	Units	LOD									
Polyaromatic hydrocarbons												
Naphthalene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Acenaphthylene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Acenaphthene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Fluorene	S	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Phenanthrene	SM	mg/kg	0.02	0.03	n/t	0.03	0.04	n/t	0.04	n/t	< 0.02	n/t
Anthracene	S	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Fluoranthene	SM	mg/kg	0.02	0.09	n/t	0.07	0.09	n/t	0.07	n/t	< 0.02	n/t
Pyrene	SM	mg/kg	0.02	0.07	n/t	0.06	0.08	n/t	0.06	n/t	< 0.02	n/t
Benzo(a)anthracene	S	mg/kg	0.02	0.05	n/t	0.05	0.06	n/t	0.05	n/t	< 0.02	n/t
Chrysene	SM	mg/kg	0.02	0.04	n/t	0.04	0.05	n/t	0.04	n/t	< 0.03	n/t
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.06	n/t	0.06	0.09	n/t	0.06	n/t	< 0.02	n/t
Benzo(k)fluoranthene	SM	mg/kg	0.03	0.03	n/t	0.03	0.04	n/t	0.03	n/t	< 0.03	n/t
Benzo(a)pyrene	S	mg/kg	0.02	0.05	n/t	0.06	0.08	n/t	0.06	n/t	< 0.02	n/t
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.03	n/t	0.03	0.05	n/t	0.04	n/t	< 0.02	n/t
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	< 0.02	n/t
Benzo(g,h,i)perylene	SM	mg/kg	0.02	0.04	n/t	0.04	0.06	n/t	0.04	n/t	< 0.02	n/t
Total PAH(16)	NS	mg/kg	0.34	0.50	n/t	0.47	0.63	n/t	0.48	n/t	< 0.34	n/t
BTEX												
Benzene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	n/t	fg < 10.0	n/t	fg < 10.0	n/t
Toluene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	n/t	fg < 10.0	n/t	fg < 10.0	n/t
Ethylbenzene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	n/t	fg < 10.0	n/t	fg < 10.0	n/t
Xylenes	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	n/t	fg < 10.0	n/t	fg < 10.0	n/t
MTBE	N	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	n/t	fg < 10.0	n/t	fg < 10.0	n/t
OrganoChlorine Pesticides												
alpha-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
beta-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t	< 10	n/t	n/t



Results Summary

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ELAB Reference				313175	313176	313178	313179	313182	313184	313187	313189
Customer Reference											
Sample ID											
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP07	TP07	TP08	TP09	WS01	WS02	WS05	WS06
Sample Depth (m)				0.10	0.40	0.40	0.20	0.30	0.80	0.30	0.10
Sampling Date				30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023
Determinand	Codes	Units	LOD								
Soil sample preparation parameters											
Moisture Content	N	%	0.1	18.6	16.2	17.3	20.1	20.0	14.4	15.6	14.8
Material removed	N	%	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
Metals											
Arsenic	M	mg/kg	1	6.2	n/t	3.6	14.2	5.0	6.8	6.4	6.6
Beryllium	U	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	10.9	n/t	15.5	32.5	24.4	22.4	13.8	20.0
Copper	M	mg/kg	5	25.7	n/t	5.6	20.3	8.4	7.8	21.2	52.1
Lead	M	mg/kg	5	17.7	n/t	8.6	14.6	8.8	8.4	22.4	31.2
Water soluble magnesium	N	g/l	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	< 5.0	n/t	< 5.0	21.6	9.0	7.3	5.3	10.1
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	17.0	n/t	20.3	47.4	33.4	26.9	20.0	25.7
Zinc	M	mg/kg	5	25.9	n/t	13.6	56.9	26.0	21.8	32.5	107
Anions											
Water Soluble Chloride	M	mg/l	20	n/t	25	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	52	n/t	54	52	45	42	54	58
Water Soluble Nitrate	U	mg/l	20	n/t	< 20	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Sulphate	M	g/l	0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02
Inorganics											
Elemental Sulphur	M	mg/kg	20	< 20	n/t	< 20	< 20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	g < 2	n/t	g < 2	g < 2	g < 2	g < 2	g < 2	g < 2
Total Cyanide	M	mg/kg	1	f < 1.0	n/t	f < 1.0	f < 1.0	f < 1.0	f < 1.0	f < 1.0	f < 1.0
Total Sulphur	N	%	0.01	n/t	0.02	n/t	n/t	n/t	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03	0.02	0.02	0.02	0.02	0.12	0.03	0.03
Water Soluble Boron	N	mg/kg	0.5	0.5	n/t	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5
Miscellaneous											
pH	M	pH units	0.1	7.4	7.7	7.7	8.2	7.6	7.7	7.1	8.5
Total Organic Carbon	N	%	0.01	0.82	n/t	0.66	0.20	0.32	0.20	1.1	0.59
Phenols											
Total Phenols	N	mg/kg	6	f < 6	n/t	f < 6	f < 6	f < 6	f < 6	f < 6	f < 6



Results Summary

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ELAB Reference	313175	313176	313178	313179	313182	313184	313187	313189
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP07	TP07	TP08	TP09	WS01	WS02	WS05	WS06
Sample Depth (m)	0.10	0.40	0.40	0.20	0.30	0.80	0.30	0.10
Sampling Date	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023	30/01/2023
Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	0.02	n/t	< 0.02	< 0.02	0.03
Anthracene	S	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02	0.06	n/t	< 0.02	< 0.02	0.08
Pyrene	SM	mg/kg	0.02	0.05	n/t	< 0.02	< 0.02	0.07
Benzo(a)anthracene	S	mg/kg	0.02	0.04	n/t	< 0.02	< 0.02	0.05
Chrysene	SM	mg/kg	0.02	< 0.03	n/t	< 0.03	< 0.03	0.04
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.06	n/t	< 0.02	< 0.02	0.08
Benzo(k)fluoranthene	SM	mg/kg	0.03	< 0.03	n/t	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02	0.05	n/t	< 0.02	< 0.02	0.06
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.03	n/t	< 0.02	< 0.02	0.04
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Benzo(g,h,i)perylene	SM	mg/kg	0.02	0.04	n/t	< 0.02	< 0.02	0.05
Total PAH(16)	NS	mg/kg	0.34	0.35	n/t	< 0.34	< 0.34	< 0.34
BTEX								
Benzene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	fg < 10.0
Toluene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	fg < 10.0
Ethylbenzene	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	fg < 10.0
Xylenes	M	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	fg < 10.0
MTBE	N	ug/kg	10	fg < 10.0	n/t	fg < 10.0	fg < 10.0	fg < 10.0
OrganoChlorine Pesticides								
alpha-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
beta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	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
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	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
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	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
p,p-DDD	N	ug/kg	10	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
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	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
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 23-46883, 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 (%)
313163	0.10	TP01	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
313165	0.10	TP02	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
313167	0.10	TP03	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
313169	0.10	TP04	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
313172	0.50	TP05	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
313175	0.10	TP07	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
313178	0.40	TP08	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
313179	0.20	TP09	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
313182	0.30	WS01	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
313184	0.80	WS02	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
313187	0.30	WS05	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
313189	0.10	WS06	Brown Soil,Stones,Glass	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 23-46883, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Sulphide	N	As submitted sample	28/02/2023	109	Colorimetry
Hexavalent chromium	N	As submitted sample	24/02/2023	110	Colorimetry
pH	M	Air dried sample	28/02/2023	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	28/02/2023	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	27/02/2023	300	ICPMS
W. Sol Metals	N	Air dried sample	01/03/2023	300	ICPMS
Phenols in solids	N	As submitted sample	23/02/2023	121	HPLC
Elemental Sulphur	M	Air dried sample	24/02/2023	122	HPLC
Water soluble anions	M	Air dried sample	24/02/2023	172	Ion Chromatography
Organochlorine Pesticides in solids	N	As submitted sample	23/02/2023	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	27/02/2023	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	27/02/2023	181	GC-MS
BTEX in solids	M	As submitted sample	27/02/2023	181A	GC-MS
Water soluble boron	N	Air dried sample	28/02/2023	202	Colorimetry
Total cyanide	M	As submitted sample	23/02/2023	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	24/02/2023	210	IR
Asbestos identification	U	Air dried sample	01/03/2023	281	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-46883, 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



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The Environmental Laboratory Ltd
Unit A2, Windmill Road
Ponswood Industrial Estate
St. Leonards on Sea
East Sussex
TN38 9BY

Attention: Customer Services

CERTIFICATE OF ANALYSIS

Date of report Generation:	10 March 2023
Customer:	The Environmental Laboratory Ltd
Sample Delivery Group (SDG):	230227-25
Your Reference:	23-46883
Location:	
Report No:	681761
Order Number:	11019

This report has been revised and directly supersedes 680917 in its entirety.

We received 12 samples on Monday February 27, 2023 and 12 of these samples were scheduled for analysis which was completed on Monday March 06, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
27610107	313163 TP01		0.10 - 0.10	30/01/2023
27610108	313165 TP02		0.10 - 0.10	30/01/2023
27610109	313167 TP03		0.10 - 0.10	30/01/2023
27610110	313169 TP04		0.10 - 0.10	30/01/2023
27610112	313172 TP05		0.50 - 0.50	30/01/2023
27610113	313175 TP07		0.10 - 0.10	30/01/2023
27610114	313178 TP08		0.40 - 0.40	30/01/2023
27610115	313179 TP09		0.20 - 0.20	30/01/2023
27610116	313182 WS01		0.30 - 0.30	30/01/2023
27610117	313184 WS02		0.80 - 0.80	30/01/2023
27610118	313187 WS05		0.30 - 0.30	30/01/2023
27610120	313189 WS06		0.10 - 0.10	30/01/2023

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
			27610120		313189 WS06				0.10 - 0.10		125g Glass Jar		S	
			27610118		313187 WS05				0.30 - 0.30		125g Glass Jar		S	
			27610117		313184 WS02				0.80 - 0.80		125g Glass Jar		S	
			27610116		313182 WS01				0.30 - 0.30		125g Glass Jar		S	
			27610115		313179 TP09				0.20 - 0.20		125g Glass Jar		S	
			27610114		313178 TP08				0.40 - 0.40		125g Glass Jar		S	
27610113		313175 TP07				0.10 - 0.10		125g Glass Jar		S				
27610112		313172 TP05				0.50 - 0.50		125g Glass Jar		S				
27610110		313169 TP04				0.10 - 0.10		125g Glass Jar		S				
27610109		313167 TP03				0.10 - 0.10		125g Glass Jar		S				
27610108		313165 TP02				0.10 - 0.10		125g Glass Jar		S				
27610107		313163 TP01				0.10 - 0.10		125g Glass Jar		S				
EPH CWG GC (S)			All	NDPs: 0 Tests: 12	X	X	X	X	X	X	X	X	X	
GRO by GC-FID (S)			All	NDPs: 0 Tests: 12	X	X	X	X	X	X	X	X	X	
Sample description			All	NDPs: 0 Tests: 12	X	X	X	X	X	X	X	X	X	
TPH CWG GC (S)			All	NDPs: 0 Tests: 12	X	X	X	X	X	X	X	X	X	
VOC MS (S)			All	NDPs: 0 Tests: 12	X	X	X	X	X	X	X	X	X	



CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

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Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
27610107	313163 TP01	0.10 - 0.10	Light Brown	Silty Clay Loam	Vegetation	None
27610108	313165 TP02	0.10 - 0.10	Dark Brown	Silt Loam	None	None
27610109	313167 TP03	0.10 - 0.10	Light Brown	Silt Loam	Vegetation	Stones
27610110	313169 TP04	0.10 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
27610112	313172 TP05	0.50 - 0.50	Light Brown	Silty Clay Loam	None	None
27610113	313175 TP07	0.10 - 0.10	Dark Brown	Silt Loam	Vegetation	None
27610114	313178 TP08	0.40 - 0.40	Light Brown	Silty Clay	Vegetation	None
27610115	313179 TP09	0.20 - 0.20	Light Brown	Silty Clay	Stones	Vegetation
27610116	313182 WS01	0.30 - 0.30	Light Brown	Silty Clay	Vegetation	None
27610117	313184 WS02	0.80 - 0.80	Light Brown	Sandy Silt Loam	None	None
27610118	313187 WS05	0.30 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
27610120	313189 WS06	0.10 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

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Location:

Superseded Report: 680917

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

TPH CWG (S)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

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TPH CWG (S)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

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Location:

Superseded Report: 680917

VOC MS (S)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
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Location:

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VOC MS (S)

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 230227-25
Client Ref.: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

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Client Ref.: 23-46883

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Test Completion Dates

Lab Sample No(s)	27610107	27610108	27610109	27610110	27610112	27610113	27610114	27610115	27610116	27610117
Customer Sample Ref.	313163 TP01	313165 TP02	313167 TP03	313169 TP04	313172 TP05	313175 TP07	313178 TP08	313179 TP09	313182 WS01	313184 WS02
AGS Ref.										
Depth	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.50 - 0.50	0.10 - 0.10	0.40 - 0.40	0.20 - 0.20	0.30 - 0.30	0.80 - 0.80
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
EPH CWG GC (S)	03-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	06-Mar-2023
GRO by GC-FID (S)	02-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	02-Mar-2023	06-Mar-2023	02-Mar-2023	03-Mar-2023
Sample description	01-Mar-2023	02-Mar-2023	02-Mar-2023	02-Mar-2023	02-Mar-2023	02-Mar-2023	01-Mar-2023	01-Mar-2023	01-Mar-2023	02-Mar-2023
TPH CWG GC (S)	03-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	06-Mar-2023	03-Mar-2023	06-Mar-2023	03-Mar-2023	06-Mar-2023
VOC MS (S)	02-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	03-Mar-2023	02-Mar-2023	02-Mar-2023	02-Mar-2023	03-Mar-2023

Lab Sample No(s)	27610118	27610120
Customer Sample Ref.	313187 WS05	313189 WS06
AGS Ref.		
Depth	0.30 - 0.30	0.10 - 0.10
Type	Soil/Solid (S)	Soil/Solid (S)
EPH CWG GC (S)	06-Mar-2023	06-Mar-2023
GRO by GC-FID (S)	06-Mar-2023	03-Mar-2023
Sample description	02-Mar-2023	02-Mar-2023
TPH CWG GC (S)	06-Mar-2023	06-Mar-2023
VOC MS (S)	03-Mar-2023	03-Mar-2023

ALS Environmental, Land	QF.7.5.1 Data Amendments Form (Issue No. 4)
	Date: 03/03/2020
	Issued and Authorised by Quality Manager

SDG	Sample Event	Sample ID	Date Amended	Amendment Reason	Previous Reference	New Reference	Supersedes Report
230227-25	27610107	313163	10/03/2023	Sample ID Change	313163	313163 TP01	680917
230227-25	27610108	313165	10/03/2023	Sample ID Change	313165	313165 TP02	680917
230227-25	27610109	313167	10/03/2023	Sample ID Change	313167	313167 TP03	680917
230227-25	27610110	313169	10/03/2023	Sample ID Change	313169	313169 TP04	680917
230227-25	27610112	313172	10/03/2023	Sample ID Change	313172	313172 TP05	680917
230227-25	27610113	313175	10/03/2023	Sample ID Change	313175	313175 TP07	680917
230227-25	27610114	313178	10/03/2023	Sample ID Change	313178	313178 TP08	680917
230227-25	27610115	313179	10/03/2023	Sample ID Change	313179	313179 TP09	680917
230227-25	27610116	313182	10/03/2023	Sample ID Change	313182	313182 WS01	680917
230227-25	27610117	313184	10/03/2023	Sample ID Change	313184	313184 WS02	680917
230227-25	27610118	313187	10/03/2023	Sample ID Change	313187	313187 WS05	680917
230227-25	27610120	313189	10/03/2023	Sample ID Change	313189	313189 WS06	680917
230227-25	27610107	313163	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	27610108	313165	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	27610109	313167	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	27610110	313169	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	27610112	313172	10/03/2023	Sample Depth Change	0	0.5	680917
230227-25	27610113	313175	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	27610114	313178	10/03/2023	Sample Depth Change	0	0.4	680917
230227-25	27610115	313179	10/03/2023	Sample Depth Change	0	0.2	680917
230227-25	27610116	313182	10/03/2023	Sample Depth Change	0	0.3	680917
230227-25	27610117	313184	10/03/2023	Sample Depth Change	0	0.8	680917
230227-25	27610118	313187	10/03/2023	Sample Depth Change	0	0.3	680917
230227-25	27610120	313189	10/03/2023	Sample Depth Change	0	0.1	680917
230227-25	All samples	All samples	10/03/2023	Sample Date Change	22/03/2023	30/01/2023	680917
230227-25	N/A	N/A	10/03/2023	Client Reference Change	23-46881	23-46883	680917



CERTIFICATE OF ANALYSIS

SDG: 230227-25
Client Ref: 23-46883

Report Number: 681761
Location:

Superseded Report: 680917

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Adinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

APPENDIX E

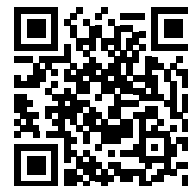
Hazwaste Assessment



Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



56PU8-UV85K-KPQMN

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in **pale yellow**.

Job name

GE21512 Waste Soils Assessment

Description/Comments

Based on ELAB Report No.: 23-46883, issue number 1 & ALS Report Number: 681761

Project

GE21512

Site

Berewood Phase 8a

Classified by

Name: **Shaun Armitage**
 Date: **13 Mar 2023 16:25 GMT**
 Telephone:
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Rd
Hurstpierpoint
BN6 9GL

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

CERTIFIED

Course
 Hazardous Waste Classification

Date
 09 Jun 2022

Next 3 year Refresher due by Jun 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Phase 8A Berewood, Waterlooville

Post Code PO7 5ST

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Excavation of soils for residential development

Description of the specific process, sub-process and/or activity that created the waste

Waste created by excavation of soils for residential development

Description of the waste

Clay based Made Ground.
 Clay and silt based Topsoil.
 Natural clay soils.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP01-0.10--30/01/2023	0.10	Non Hazardous		3
2	TP02-0.10--30/01/2023	0.10	Non Hazardous		6
3	TP03-0.10--30/01/2023	0.10	Non Hazardous		9
4	TP04-0.10--30/01/2023	0.10	Non Hazardous		12
5	TP05-0.50--30/01/2023	0.50	Non Hazardous		15
6	TP07-0.10--30/01/2023	0.10	Non Hazardous		18
7	TP08-0.40--30/01/2023	0.40	Non Hazardous		21
8	TP09-0.20--30/01/2023	0.20	Non Hazardous		24
9	WS01-0.30--30/01/2023	0.30	Non Hazardous		27
10	WS02-0.80--30/01/2023	0.80	Non Hazardous		30
11	WS05-0.30--30/01/2023	0.30	Non Hazardous		33
12	WS06-0.10--30/01/2023	0.10	Non Hazardous		36

Related documents

#	Name	Description
1	HWOL_23-46883_20230313.HWOL	ELAB .hwol file used to populate the Job
2	GESL Soils Waste Stream Template	waste stream template used to create this Job

Report

Created by: Shaun Armitage

Created date: 13 Mar 2023 16:25 GMT

Appendices

	Page
Appendix A: Classifier defined and non GB MCL determinands	39
Appendix B: Rationale for selection of metal species	41
Appendix C: Version	41

Classification of sample: TP01-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP01-0.10--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.2 mg/kg	1.32	8.204 mg/kg	0.00082 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.1 mg/kg	1.462	24.091 mg/kg	0.00241 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				17.8 mg/kg	1.126	17.295 mg/kg	0.00173 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	23.4 mg/kg	1.56	31.499 mg/kg	0.00202 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				9.1 mg/kg	2.976	23.374 mg/kg	0.00234 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				26.8 mg/kg	1.785	41.288 mg/kg	0.00413 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				37.6 mg/kg	2.774	90.018 mg/kg	0.009 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				6.9 pH		6.9 pH	6.9 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.03 mg/kg		0.0259 mg/kg	0.00000259 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.09 mg/kg		0.0777 mg/kg	0.00000777 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.07 mg/kg		0.0604 mg/kg	0.00000604 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.05 mg/kg		0.0432 mg/kg	0.00000432 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.04 mg/kg		0.0345 mg/kg	0.00000345 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.06 mg/kg		0.0518 mg/kg	0.00000518 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.03 mg/kg		0.0259 mg/kg	0.00000259 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.05 mg/kg		0.0432 mg/kg	0.00000432 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.03 mg/kg		0.0259 mg/kg	0.00000259 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.04 mg/kg		0.0345 mg/kg	0.00000345 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0317 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP02-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP02-0.10--30/01/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.5 mg/kg	1.32	7.638 mg/kg	0.000764 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.719 mg/kg	0.000172 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.8 mg/kg	1.462	17.951 mg/kg	0.0018 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				35.9 mg/kg	1.126	35.973 mg/kg	0.0036 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	26.7 mg/kg	1.56	37.066 mg/kg	0.00238 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				6.5 mg/kg	2.976	17.218 mg/kg	0.00172 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				20.4 mg/kg	1.785	32.412 mg/kg	0.00324 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				34.7 mg/kg	2.774	85.674 mg/kg	0.00857 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				20.1 mg/kg		17.889 mg/kg	0.00179 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.3 pH		7.3 pH	7.3 pH			
			pH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.03 mg/kg		0.0267 mg/kg	0.00000267 %		✓	
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.07 mg/kg		0.0623 mg/kg	0.00000623 %		✓	
		205-912-4	206-44-0								
29	pyrene				0.06 mg/kg		0.0534 mg/kg	0.00000534 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.05 mg/kg		0.0445 mg/kg	0.00000445 %		✓	
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.04 mg/kg		0.0356 mg/kg	0.00000356 %		✓	
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.06 mg/kg		0.0534 mg/kg	0.00000534 %		✓	
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.03 mg/kg		0.0267 mg/kg	0.00000267 %		✓	
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.0534 mg/kg	0.00000534 %		✓	
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.03 mg/kg		0.0267 mg/kg	0.00000267 %		✓	
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.04 mg/kg		0.0356 mg/kg	0.00000356 %		✓	
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-045-00-7	200-024-3	50-29-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
40	chlordan (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoinan				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	602-047-00-8	200-349-0	57-74-9								
41	hexachlorocyclohexanes, including lindane				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1								
42	dieldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-049-00-9	200-484-5	60-57-1								
43	endrin (ISO); 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-051-00-X	200-775-7	72-20-8								
44	heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-046-00-2	200-962-3	76-44-8								
45	aldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-048-00-3	206-215-8	309-00-2								
46	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
47	heptachlor epoxide; 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoinane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-063-00-5	213-831-0	1024-57-3								
48	p,p'-DDE				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		200-784-6	72-55-9								
49	p,p'-DDD				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		200-783-0	72-54-8								
50	p,p'-methoxychlor				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		200-779-9	72-43-5								
51	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	602-052-00-5	204-079-4	115-29-7								
Total:									0.0321 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Non-flammable material

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00179%)

Classification of sample: TP03-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP03-0.10--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.4%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	7.459 mg/kg	0.000746 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.8 mg/kg	3.22	2.205 mg/kg	0.00022 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.6 mg/kg	1.462	22.019 mg/kg	0.0022 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				21.9 mg/kg	1.126	21.106 mg/kg	0.00211 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	25.7 mg/kg	1.56	34.315 mg/kg	0.0022 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				12 mg/kg	2.976	30.572 mg/kg	0.00306 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.6 mg/kg	1.785	39.12 mg/kg	0.00391 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				44.6 mg/kg	2.774	105.91 mg/kg	0.0106 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				13 mg/kg		11.128 mg/kg	0.00111 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				6.9 pH		6.9 pH	6.9 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.04 mg/kg		0.0342 mg/kg	0.00000342 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.09 mg/kg		0.077 mg/kg	0.0000077 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.08 mg/kg		0.0685 mg/kg	0.00000685 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.06 mg/kg		0.0514 mg/kg	0.00000514 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.05 mg/kg		0.0428 mg/kg	0.00000428 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.09 mg/kg		0.077 mg/kg	0.0000077 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.04 mg/kg		0.0342 mg/kg	0.00000342 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.08 mg/kg		0.0685 mg/kg	0.00000685 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.05 mg/kg		0.0428 mg/kg	0.00000428 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.06 mg/kg		0.0514 mg/kg	0.00000514 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0343 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Non-flammable material

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00111%)

Classification of sample: TP04-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP04-0.10--30/01/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
11.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.5 mg/kg	1.32	6.419 mg/kg	0.000642 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.708 mg/kg	0.000171 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12.3 mg/kg	1.462	15.892 mg/kg	0.00159 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				11.6 mg/kg	1.126	11.545 mg/kg	0.00115 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	22.1 mg/kg	1.56	30.473 mg/kg	0.00195 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				6 mg/kg	2.976	15.786 mg/kg	0.00158 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				18.3 mg/kg	1.785	28.879 mg/kg	0.00289 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				30.9 mg/kg	2.774	75.777 mg/kg	0.00758 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				11.8 mg/kg		10.431 mg/kg	0.00104 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				6.9 pH		6.9 pH	6.9 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.04 mg/kg		0.0354 mg/kg	0.00000354 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.07 mg/kg		0.0619 mg/kg	0.00000619 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.06 mg/kg		0.053 mg/kg	0.0000053 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.05 mg/kg		0.0442 mg/kg	0.00000442 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.04 mg/kg		0.0354 mg/kg	0.00000354 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.06 mg/kg		0.053 mg/kg	0.0000053 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.03 mg/kg		0.0265 mg/kg	0.00000265 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.053 mg/kg	0.0000053 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.04 mg/kg		0.0354 mg/kg	0.00000354 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.04 mg/kg		0.0354 mg/kg	0.00000354 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0267 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Non-flammable material

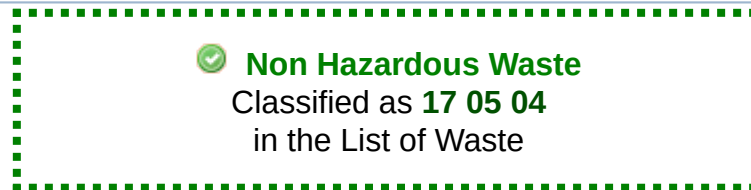
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00104%)

Classification of sample: TP05-0.50--30/01/2023


Sample details

Sample name:	LoW Code:
TP05-0.50--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.6%	
(wet weight correction)	

Hazard properties

None identified

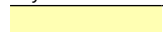
Determinands

Moisture content: 17.6% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				7 mg/kg	1.32	7.616 mg/kg	0.000762 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9							
3		boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
		005-008-00-8	215-125-8	1303-86-2							
4		cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.3 mg/kg	1.462	19.63 mg/kg	0.00196 %	✓	
			215-160-9	1308-38-9							
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
		024-017-00-8									
7		copper { dicopper oxide; copper (I) oxide }				6.8 mg/kg	1.126	6.309 mg/kg	0.000631 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
8		lead { lead chromate }			1	7.4 mg/kg	1.56	9.511 mg/kg	0.00061 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
9		mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7							
10		nickel { nickel chromate }				<5 mg/kg	2.976	<14.881 mg/kg	<0.00149 %		<LOD
		028-035-00-7	238-766-5	14721-18-7							
11		selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5							
12		vanadium { divanadium pentaoxide; vanadium pentoxide }				25.7 mg/kg	1.785	37.805 mg/kg	0.00378 %	✓	
		023-001-00-8	215-239-8	1314-62-1							
13		zinc { zinc chromate }				15.6 mg/kg	2.774	35.66 mg/kg	0.00357 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
14		TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
				TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.3 pH		7.3 pH	7.3 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.022 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP07-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP07-0.10--30/01/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
18.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 18.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.2 mg/kg	1.32	6.663 mg/kg	0.000666 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.5 mg/kg	3.22	1.31 mg/kg	0.000131 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10.9 mg/kg	1.462	12.968 mg/kg	0.0013 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				25.7 mg/kg	1.126	23.553 mg/kg	0.00236 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	17.7 mg/kg	1.56	22.474 mg/kg	0.00144 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				<5 mg/kg	2.976	<14.881 mg/kg	<0.00149 %		<LOD
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				17 mg/kg	1.785	24.703 mg/kg	0.00247 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				25.9 mg/kg	2.774	58.486 mg/kg	0.00585 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.4 pH		7.4 pH	7.4 pH			
			pH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.02 mg/kg		0.0163 mg/kg	0.00000163 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.06 mg/kg		0.0488 mg/kg	0.00000488 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.05 mg/kg		0.0407 mg/kg	0.00000407 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.04 mg/kg		0.0326 mg/kg	0.00000326 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.06 mg/kg		0.0488 mg/kg	0.00000488 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.05 mg/kg		0.0407 mg/kg	0.00000407 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.03 mg/kg		0.0244 mg/kg	0.00000244 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.04 mg/kg		0.0326 mg/kg	0.00000326 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0248 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP08-0.40--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP08-0.40--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.6 mg/kg	1.32	3.931 mg/kg	0.000393 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.5 mg/kg	1.462	18.735 mg/kg	0.00187 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				5.6 mg/kg	1.126	5.214 mg/kg	0.000521 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	8.6 mg/kg	1.56	11.094 mg/kg	0.000711 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				<5 mg/kg	2.976	<14.881 mg/kg	<0.00149 %		<LOD
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				20.3 mg/kg	1.785	29.97 mg/kg	0.003 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				13.6 mg/kg	2.774	31.201 mg/kg	0.00312 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
16		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]									
			203-396-5 [2]	106-42-3 [2]									
			203-576-3 [3]	108-38-3 [3]									
			215-535-7 [4]	1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
21		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
22		naphthalene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
			205-883-8	191-24-2									
38		phenol				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		sulfur { sulphur dichloride }				<20	mg/kg	3.211	<64.226	mg/kg	<0.00642 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
Total:									0.0204 %				

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP09-0.20--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
TP09-0.20--30/01/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.20 m	
Moisture content:	
20.1%	
(wet weight correction)	

Hazard properties

None identified

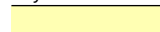
Determinands

Moisture content: 20.1% Wet Weight Moisture Correction applied (MC)

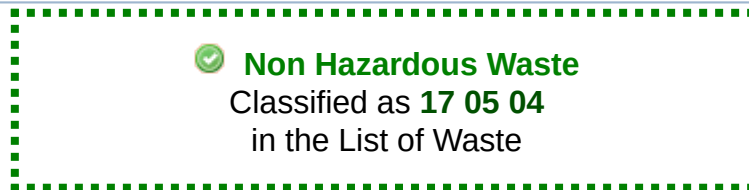
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				14.2 mg/kg	1.32	14.98 mg/kg	0.0015 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32.5 mg/kg	1.462	37.953 mg/kg	0.0038 %		✓	
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				20.3 mg/kg	1.126	18.262 mg/kg	0.00183 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	14.6 mg/kg	1.56	18.196 mg/kg	0.00117 %		✓	
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				21.6 mg/kg	2.976	51.366 mg/kg	0.00514 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				47.4 mg/kg	1.785	67.61 mg/kg	0.00676 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
13	zinc { zinc chromate }				56.9 mg/kg	2.774	126.121 mg/kg	0.0126 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				8.2 pH		8.2 pH	8.2 pH			
			pH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.042 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS01-0.30--30/01/2023


Sample details

Sample name:	LoW Code:
WS01-0.30--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				5 mg/kg	1.32	5.281 mg/kg	0.000528 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9							
3		boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
		005-008-00-8	215-125-8	1303-86-2							
4		cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24.4 mg/kg	1.462	28.53 mg/kg	0.00285 %	✓	
			215-160-9	1308-38-9							
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
		024-017-00-8									
7		copper { dicopper oxide; copper (I) oxide }				8.4 mg/kg	1.126	7.566 mg/kg	0.000757 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
8		lead { lead chromate }			1	8.8 mg/kg	1.56	10.981 mg/kg	0.000704 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
9		mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7							
10		nickel { nickel chromate }				9 mg/kg	2.976	21.429 mg/kg	0.00214 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
11		selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5							
12		vanadium { divanadium pentaoxide; vanadium pentoxide }				33.4 mg/kg	1.785	47.7 mg/kg	0.00477 %	✓	
		023-001-00-8	215-239-8	1314-62-1							
13		zinc { zinc chromate }				26 mg/kg	2.774	57.702 mg/kg	0.00577 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
14		TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
				TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0268 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS02-0.80--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
WS02-0.80--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.4%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.8 mg/kg	1.32	7.685 mg/kg	0.000769 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.4 mg/kg	1.462	28.024 mg/kg	0.0028 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				7.8 mg/kg	1.126	7.517 mg/kg	0.000752 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	8.4 mg/kg	1.56	11.216 mg/kg	0.000719 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				7.3 mg/kg	2.976	18.598 mg/kg	0.00186 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				26.9 mg/kg	1.785	41.106 mg/kg	0.00411 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				21.8 mg/kg	2.774	51.768 mg/kg	0.00518 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.7 pH		7.7 pH	7.7 pH			
			pH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0254 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS05-0.30--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
WS05-0.30--30/01/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.4 mg/kg	1.32	7.132 mg/kg	0.000713 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				0.6 mg/kg	3.22	1.631 mg/kg	0.000163 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.8 mg/kg	1.462	17.023 mg/kg	0.0017 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				21.2 mg/kg	1.126	20.145 mg/kg	0.00201 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	22.4 mg/kg	1.56	29.489 mg/kg	0.00189 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				5.3 mg/kg	2.976	13.313 mg/kg	0.00133 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				20 mg/kg	1.785	30.134 mg/kg	0.00301 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
13	zinc { zinc chromate }				32.5 mg/kg	2.774	76.095 mg/kg	0.00761 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				15.4 mg/kg		12.998 mg/kg	0.0013 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				7.1 pH		7.1 pH	7.1 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.03 mg/kg		0.0253 mg/kg	0.00000253 %		✓	
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.08 mg/kg		0.0675 mg/kg	0.00000675 %		✓	
		205-912-4	206-44-0								
29	pyrene				0.07 mg/kg		0.0591 mg/kg	0.00000591 %		✓	
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.05 mg/kg		0.0422 mg/kg	0.00000422 %		✓	
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.04 mg/kg		0.0338 mg/kg	0.00000338 %		✓	
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.08 mg/kg		0.0675 mg/kg	0.00000675 %		✓	
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.0506 mg/kg	0.00000506 %		✓	
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.04 mg/kg		0.0338 mg/kg	0.00000338 %		✓	
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.05 mg/kg		0.0422 mg/kg	0.00000422 %		✓	
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.0279 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Non-flammable material

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0013%)

Classification of sample: WS06-0.10--30/01/2023

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample name:	LoW Code:
WS06-0.10--30/01/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10 m	
Moisture content:	
14.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	7.424 mg/kg	0.000742 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<1 mg/kg	2.775	<2.775 mg/kg	<0.000278 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20 mg/kg	1.462	24.905 mg/kg	0.00249 %	✓		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.8 mg/kg	2.27	<1.816 mg/kg	<0.000182 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				52.1 mg/kg	1.126	49.977 mg/kg	0.005 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	31.2 mg/kg	1.56	41.464 mg/kg	0.00266 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				10.1 mg/kg	2.976	25.611 mg/kg	0.00256 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.7 mg/kg	1.785	39.089 mg/kg	0.00391 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
13	zinc { zinc chromate }				107 mg/kg	2.774	252.902 mg/kg	0.0253 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
21	pH				8.5 pH		8.5 pH	8.5 pH			
			PH								
22	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.06 mg/kg		0.0511 mg/kg	0.00000511 %	✓		
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.23 mg/kg		0.196 mg/kg	0.0000196 %	✓		
		205-912-4	206-44-0								
29	pyrene				0.2 mg/kg		0.17 mg/kg	0.000017 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.19 mg/kg		0.162 mg/kg	0.0000162 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.14 mg/kg		0.119 mg/kg	0.0000119 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.29 mg/kg		0.247 mg/kg	0.0000247 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.11 mg/kg		0.0937 mg/kg	0.00000937 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.26 mg/kg		0.222 mg/kg	0.0000222 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.19 mg/kg		0.162 mg/kg	0.0000162 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				0.04 mg/kg		0.0341 mg/kg	0.00000341 %	✓		
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.19 mg/kg		0.162 mg/kg	0.0000162 %	✓		
		205-883-8	191-24-2								
38	phenol				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
39	sulfur { sulphur dichloride }				<20 mg/kg	3.211	<64.226 mg/kg	<0.00642 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
Total:									0.052 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

■ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **divanadium pentaoxide; vanadium pentoxide** (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8

Description/Comments:

Additional Hazard Statement(s): Carc. 1B; H350 , Acute Tox. 3; H301 , Acute Tox. 2; H330

Reason for additional Hazards Statement(s):

20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formally make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formally make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formally make this change to the MCL List].

Substance has therefore been self-classified.

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

■ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

■ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **p,p'-DDE** (EC Number: 200-784-6, CAS Number: 72-55-9)

Description/Comments: other names: 4,4'-DDE; 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21845>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **p,p'-DDD** (EC Number: 200-783-0, CAS Number: 72-54-8)

Description/Comments: other names: Rhothane; p,p'-TDE; 4,4'-DDD; 4,4'-TDE;
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21283>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **p,p'-methoxychlor** (EC Number: 200-779-9, CAS Number: 72-43-5)

Description/Comments: other names: Methoxychlor; DMDT; Dimethoxy-DDT; Methoxy-DDT; Methoxcide; p,p'-Dimethoxydiphenyltrichloroethane; 1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/112624>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species selected

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide]

sulfur {sulphur dichloride}

Worst case species selected

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021

HazWasteOnline Classification Engine Version: 2023.69.5541.10251 (10 Mar 2023)

HazWasteOnline Database: 2023.69.5541.10251 (10 Mar 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021



APPENDIX F

DCP Results



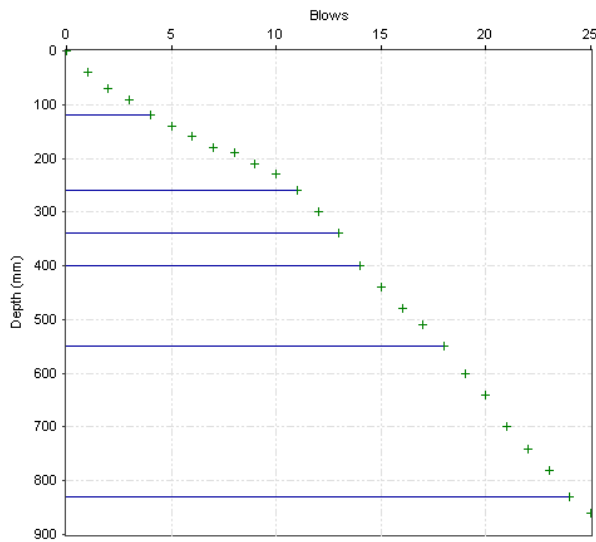
DCP Layer Strength Analysis Report

Project Name: DCP01

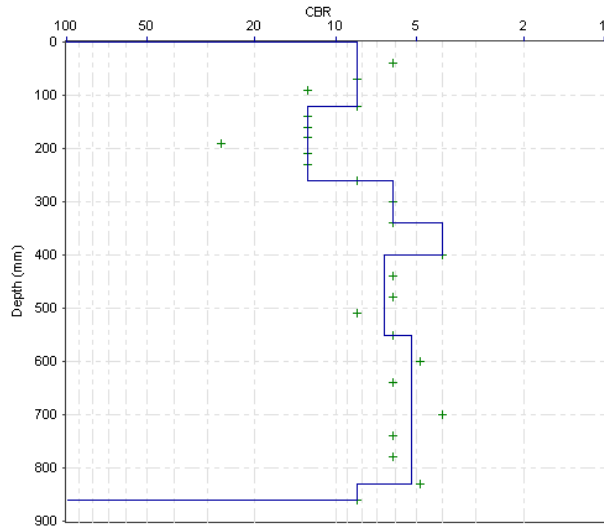
Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 110
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	30.00	8	120	120
2	20.00	13	140	260
3	40.00	6	80	340
4	60.00	4	60	400
5	37.50	7	150	550
6	46.67	5	280	830
7	30.00	8	30	860

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by 

Penetration Data Report

Project Name: DCP01

Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 110
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	110	0.00	26	1	25	970	30.00
2	1	1	150	40.00					
3	1	2	180	30.00					
4	1	3	200	20.00					
5	1	4	230	30.00					
6	1	5	250	20.00					
7	1	6	270	20.00					
8	1	7	290	20.00					
9	1	8	300	10.00					
10	1	9	320	20.00					
11	1	10	340	20.00					
12	1	11	370	30.00					
13	1	12	410	40.00					
14	1	13	450	40.00					
15	1	14	510	60.00					
16	1	15	550	40.00					
17	1	16	590	40.00					
18	1	17	620	30.00					
19	1	18	660	40.00					
20	1	19	710	50.00					
21	1	20	750	40.00					
22	1	21	810	60.00					
23	1	22	850	40.00					
24	1	23	890	40.00					
25	1	24	940	50.00					

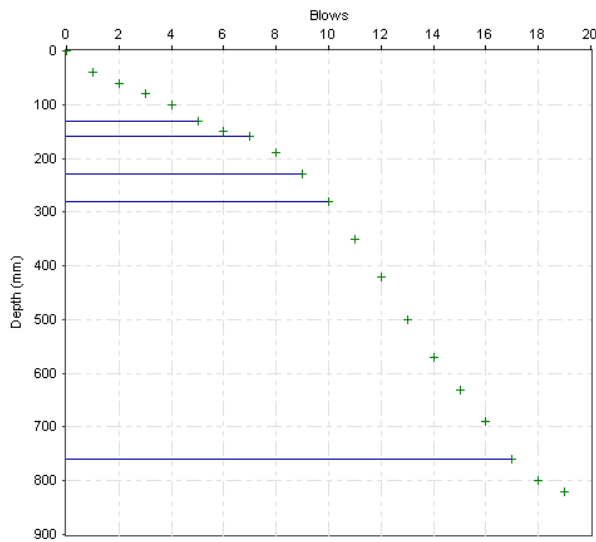
DCP Layer Strength Analysis Report

Project Name: DCP02

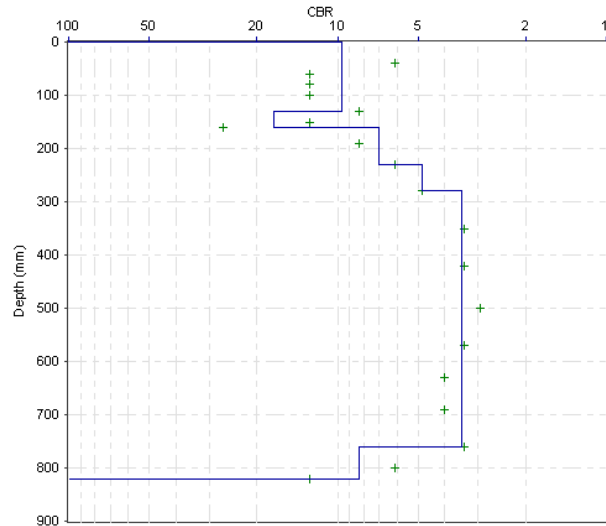
Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 150
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	26.00	10	130	130
2	15.00	17	30	160
3	35.00	7	70	230
4	50.00	5	50	280
5	68.57	3	480	760
6	30.00	8	60	820

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP02

Chainage (km): 0.000

Direction:

Location/Offset: Verge

Cone Angle: 60 degrees

Zero Error (mm): 150

Test Date: 22/02/2023

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	150	0.00					
2	1	1	190	40.00					
3	1	2	210	20.00					
4	1	3	230	20.00					
5	1	4	250	20.00					
6	1	5	280	30.00					
7	1	6	300	20.00					
8	1	7	310	10.00					
9	1	8	340	30.00					
10	1	9	380	40.00					
11	1	10	430	50.00					
12	1	11	500	70.00					
13	1	12	570	70.00					
14	1	13	650	80.00					
15	1	14	720	70.00					
16	1	15	780	60.00					
17	1	16	840	60.00					
18	1	17	910	70.00					
19	1	18	950	40.00					
20	1	19	970	20.00					

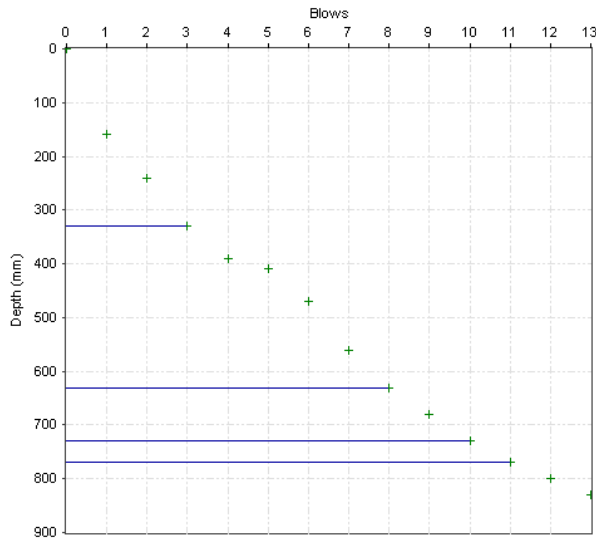
DCP Layer Strength Analysis Report

Project Name: DCP03

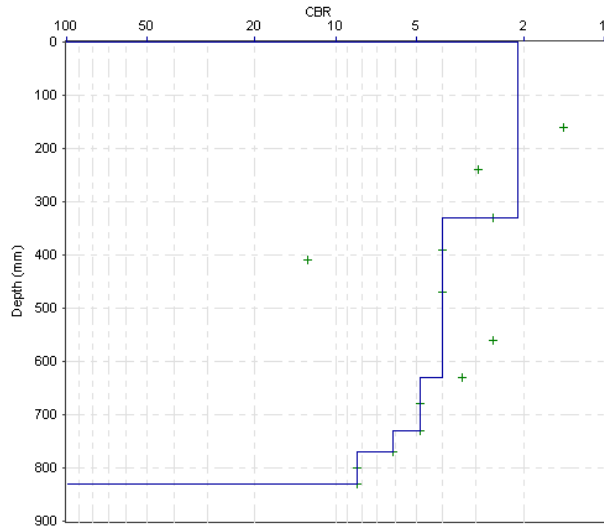
Chainage (km): 0.000
Direction:
Location/Offset: Verge
Cone Angle: 60 degrees
Zero Error (mm): 130
Test Date: 22/02/2023

Surface Type: Unpaved
Thickness (mm): 0
Base Type:
Thickness (mm):
Surface Moisture: Moderate
Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	110.00	2	330	330
2	60.00	4	300	630
3	50.00	5	100	730
4	40.00	6	40	770
5	30.00	8	60	830

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP03

Chainage (km): 0.000

Direction:

Location/Offset: Verge

Cone Angle: 60 degrees

Zero Error (mm): 130

Test Date: 22/02/2023

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor: Not adjusted

[illegible]

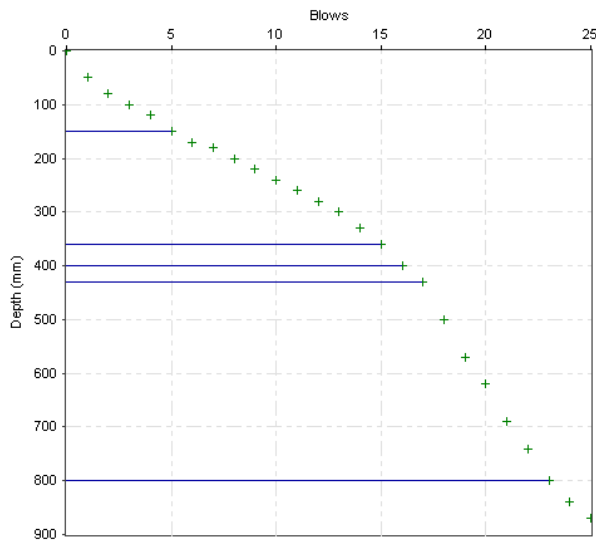
DCP Layer Strength Analysis Report

Project Name: DCP04

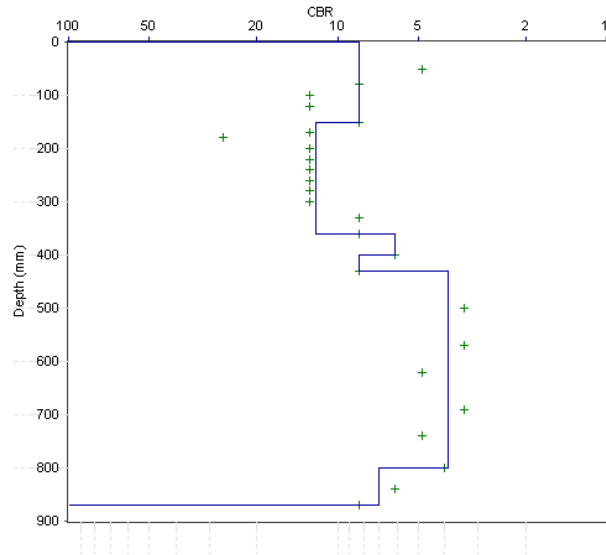
Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 90
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	30.00	8	150	150
2	21.00	12	210	360
3	40.00	6	40	400
4	30.00	8	30	430
5	61.67	4	370	800
6	35.00	7	70	870

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP04

Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 90
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	90	0.00	26	1	25	960	30.00
2	1	1	140	50.00					
3	1	2	170	30.00					
4	1	3	190	20.00					
5	1	4	210	20.00					
6	1	5	240	30.00					
7	1	6	260	20.00					
8	1	7	270	10.00					
9	1	8	290	20.00					
10	1	9	310	20.00					
11	1	10	330	20.00					
12	1	11	350	20.00					
13	1	12	370	20.00					
14	1	13	390	20.00					
15	1	14	420	30.00					
16	1	15	450	30.00					
17	1	16	490	40.00					
18	1	17	520	30.00					
19	1	18	590	70.00					
20	1	19	660	70.00					
21	1	20	710	50.00					
22	1	21	780	70.00					
23	1	22	830	50.00					
24	1	23	890	60.00					
25	1	24	930	40.00					

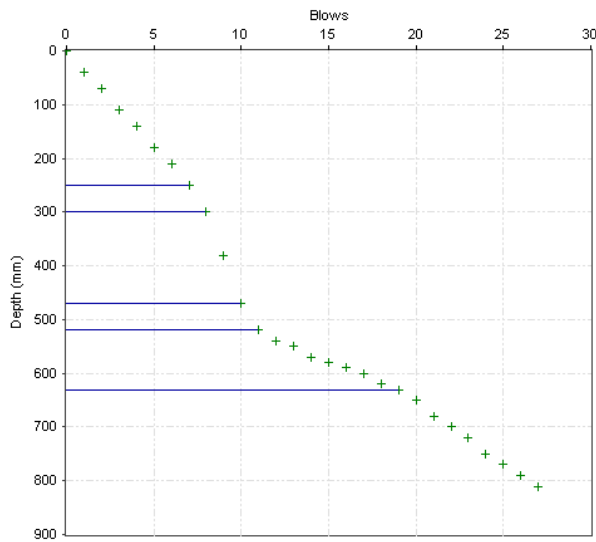
DCP Layer Strength Analysis Report

Project Name: DCP05

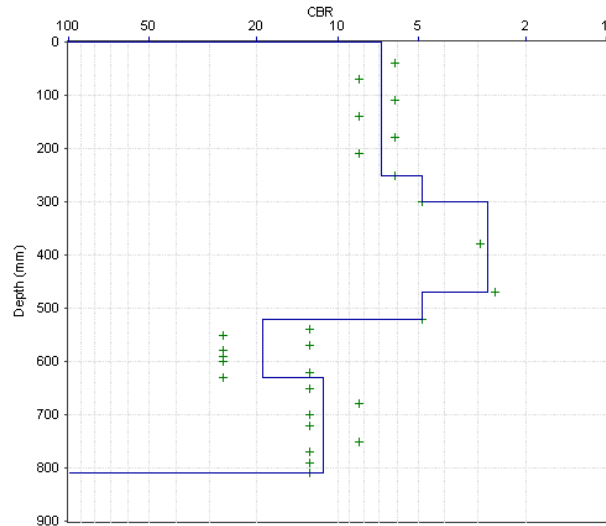
Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 160
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	35.71	7	250	250
2	50.00	5	50	300
3	85.00	3	170	470
4	50.00	5	50	520
5	13.75	19	110	630
6	22.50	11	180	810

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP05

Chainage (km): 0.000

Direction:

Location/Offset: Verge

Cone Angle: 60 degrees

Zero Error (mm): 160

Test Date: 22/02/2023

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	160	0.00	26	1	25	930	20.00
2	1	1	200	40.00	27	1	26	950	20.00
3	1	2	230	30.00	28	1	27	970	20.00
4	1	3	270	40.00					
5	1	4	300	30.00					
6	1	5	340	40.00					
7	1	6	370	30.00					
8	1	7	410	40.00					
9	1	8	460	50.00					
10	1	9	540	80.00					
11	1	10	630	90.00					
12	1	11	680	50.00					
13	1	12	700	20.00					
14	1	13	710	10.00					
15	1	14	730	20.00					
16	1	15	740	10.00					
17	1	16	750	10.00					
18	1	17	760	10.00					
19	1	18	780	20.00					
20	1	19	790	10.00					
21	1	20	810	20.00					
22	1	21	840	30.00					
23	1	22	860	20.00					
24	1	23	880	20.00					
25	1	24	910	30.00					

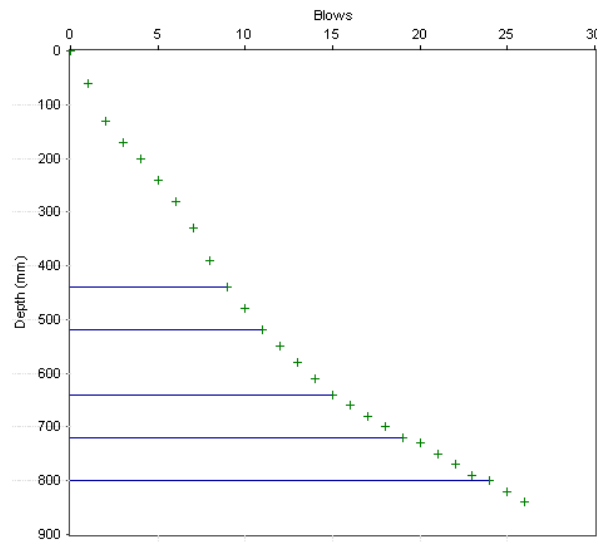
DCP Layer Strength Analysis Report

Project Name: DCP06

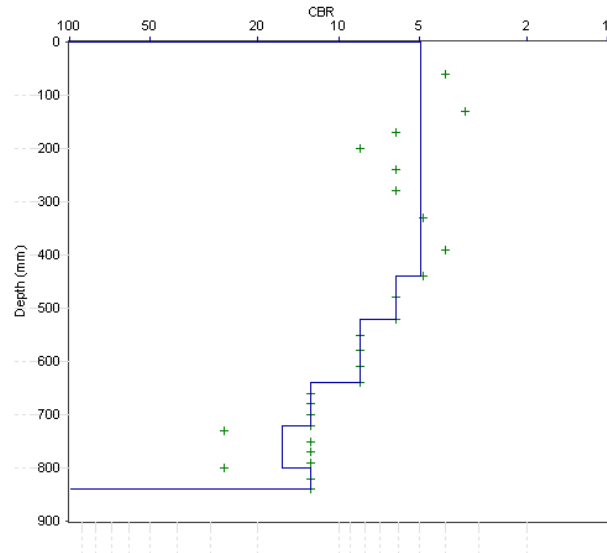
Chainage (km): 0.000
 Direction:
 Location/Offset: Verge
 Cone Angle: 60 degrees
 Zero Error (mm): 130
 Test Date: 22/02/2023

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	48.89	5	440	440
2	40.00	6	80	520
3	30.00	8	120	640
4	20.00	13	80	720
5	16.00	16	80	800
6	20.00	13	40	840

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP06

Chainage (km): 0.000

Direction:

Location/Offset: Verge

Cone Angle: 60 degrees

Zero Error (mm): 130

Test Date: 22/02/2023

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	130	0.00	26	1	25	950	20.00
2	1	1	190	60.00	27	1	26	970	20.00
3	1	2	260	70.00					
4	1	3	300	40.00					
5	1	4	330	30.00					
6	1	5	370	40.00					
7	1	6	410	40.00					
8	1	7	460	50.00					
9	1	8	520	60.00					
10	1	9	570	50.00					
11	1	10	610	40.00					
12	1	11	650	40.00					
13	1	12	680	30.00					
14	1	13	710	30.00					
15	1	14	740	30.00					
16	1	15	770	30.00					
17	1	16	790	20.00					
18	1	17	810	20.00					
19	1	18	830	20.00					
20	1	19	850	20.00					
21	1	20	860	10.00					
22	1	21	880	20.00					
23	1	22	900	20.00					
24	1	23	920	20.00					
25	1	24	930	10.00					

APPENDIX G

Soakage Test Results



 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-EnvironmentalServices Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net
Project Name : Berewood - Phase 8A		Job No. : GE21512
Client : Bloor Homes Southern		Date : 23/02/2023

Pit reference	TP03		
Test reference	Test1	Test2	Test3
Pit depth (m)	3.10		
Pit width (m)	0.50		
Pit length (m)	2.00		
Depth to standing water (m)			

Test 1

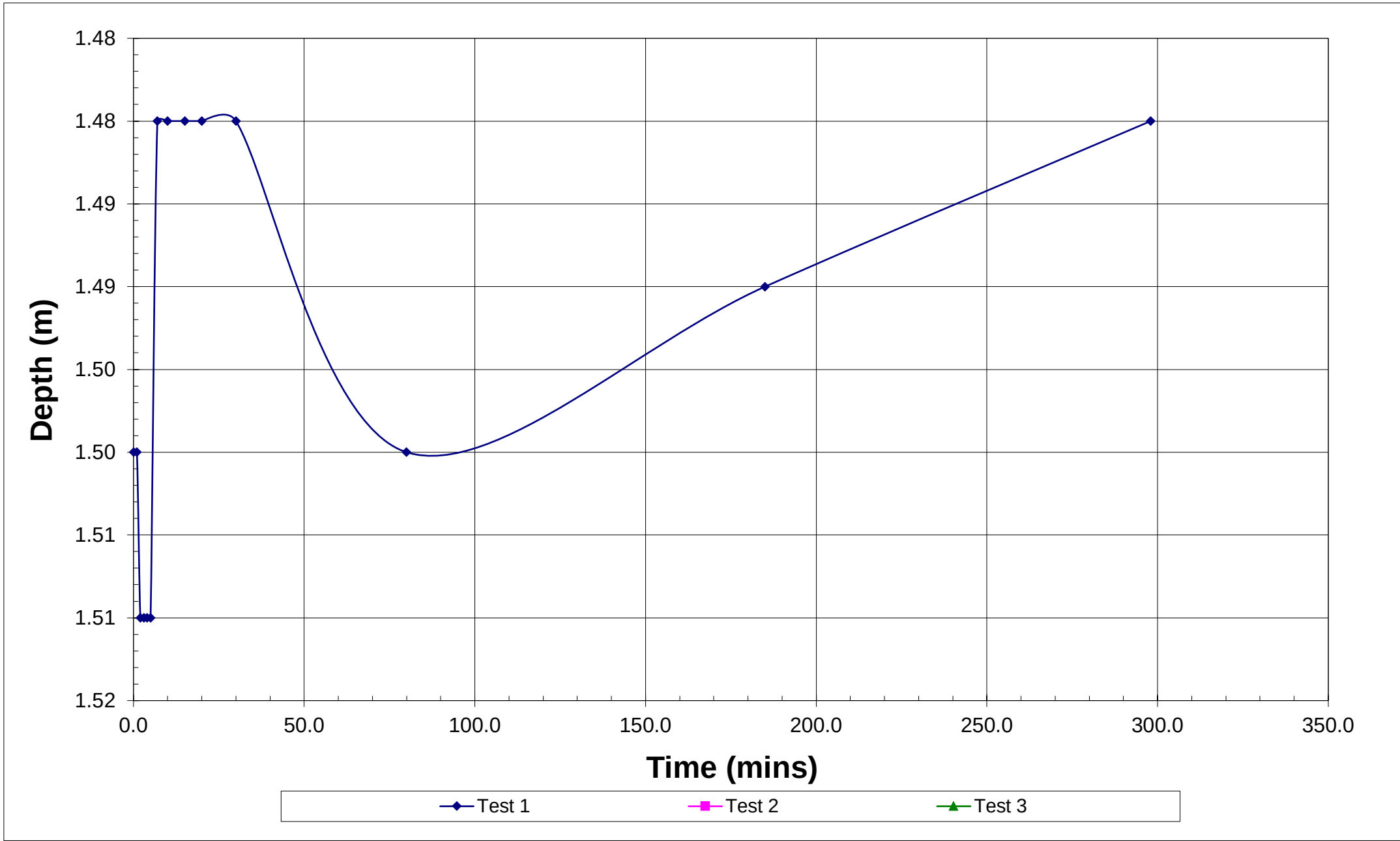
Time (min)	Depth (m)
0.0	1.50
1.0	1.50
2.0	1.51
3.0	1.51
4.0	1.51
5.0	1.51
7.0	1.48
10.0	1.48
15.0	1.48
20.0	1.48
30.0	1.48
80.0	1.50
185.0	1.49
298.0	1.48

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	3.10	0.00	0.00
Effective depth (m)	1.60	0.00	0.00
75% effective depth (m)	1.90	0.00	0.00
50% effective depth (m)	2.30	0.00	0.00
25% effective depth (m)	2.70	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.80	0.00	0.00
ap 50	5	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	Insufficient fall in water to complete test	
Soil infiltration rate (mm/hr)	Insufficient fall in water to complete test	

Notes:

- 1
- 2
- 3
- Blue cells require input data
Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
First line of table must be depth at time = 0

 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-EnvironmentalServices Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net
Project Name : Berewood - Phase 8A		Job No. : GE21512
Client : Bloor Homes Southern		Date : 23/02/2023

Pit reference	TP04		
Test reference	Test1	Test2	Test3
Pit depth (m)	3.10		
Pit width (m)	0.50		
Pit length (m)	2.00		
Depth to standing water (m)			

Test 1

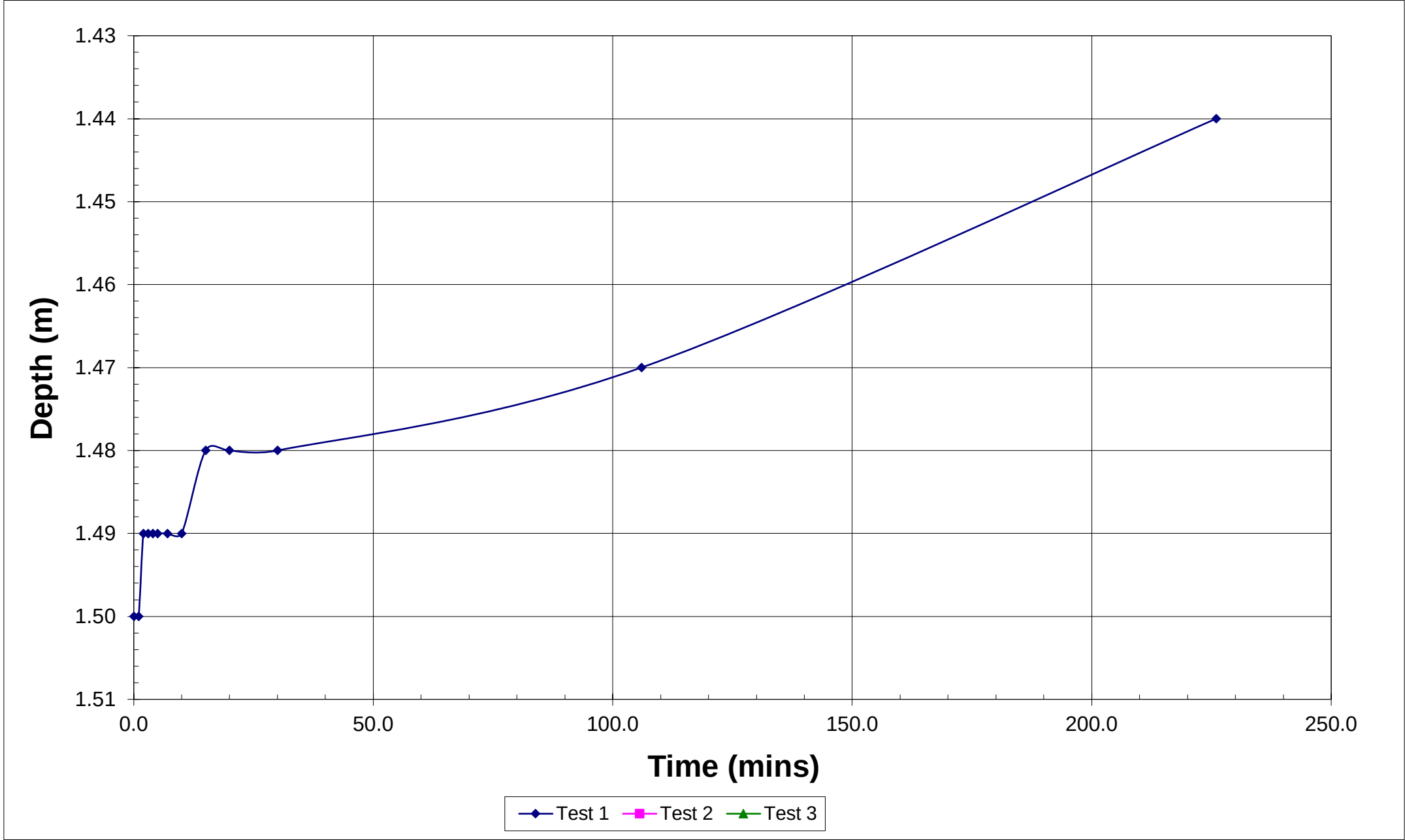
Time (min)	Depth (m)
0.0	1.50
1.0	1.50
2.0	1.49
3.0	1.49
4.0	1.49
5.0	1.49
7.0	1.49
10.0	1.49
15.0	1.48
20.0	1.48
30.0	1.48
106.0	1.47
226.0	1.44

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	3.10	0.00	0.00
Effective depth (m)	1.60	0.00	0.00
75% effective depth (m)	1.90	0.00	0.00
50% effective depth (m)	2.30	0.00	0.00
25% effective depth (m)	2.70	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.80	0.00	0.00
ap 50	5	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	Insufficient fall in water to complete test	
Soil infiltration rate (mm/hr)	Insufficient fall in water to complete test	

Notes:

- 1
- 2
- 3
- Blue cells require input data
Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
First line of table must be depth at time = 0

 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net
Project Name : Berewood - Phase 8A		Job No. : GE21512
Client : Bloor Homes Southern		Date : 23/02/2023

Pit reference	TP08		
Test reference	Test1	Test2	Test3
Pit depth (m)	3.10		
Pit width (m)	0.50		
Pit length (m)	2.00		
Depth to standing water (m)	3.00		

Test 1

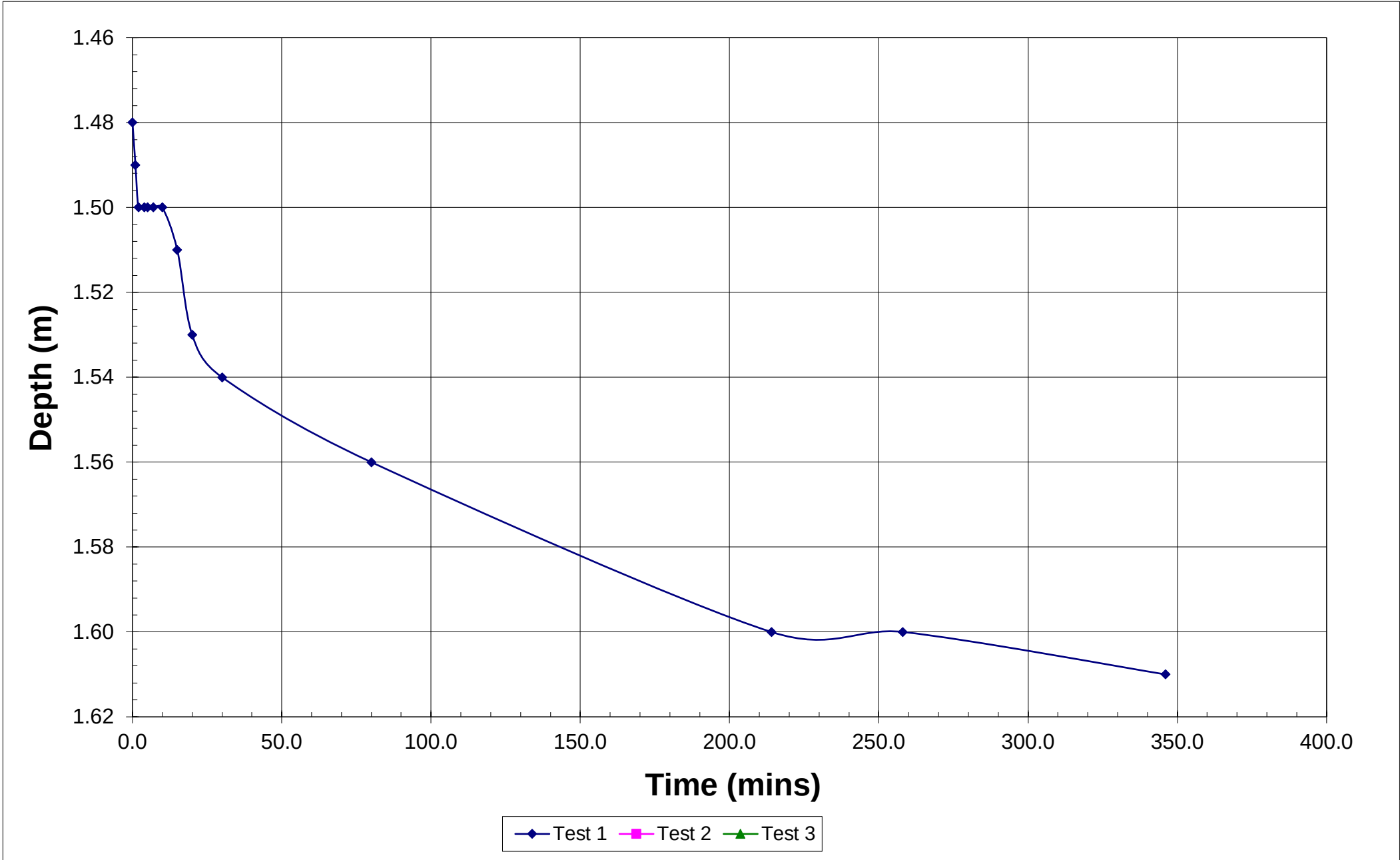
Time (min)	Depth (m)
0.0	1.48
1.0	1.49
2.0	1.50
4.0	1.50
5.0	1.50
7.0	1.50
10.0	1.50
15.0	1.51
20.0	1.53
30.0	1.54
80.0	1.56
214.0	1.60
258.0	1.60
346.0	1.61

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	3.00	0.00	0.00
Effective depth (m)	1.52	0.00	0.00
75% effective depth (m)	1.86	0.00	0.00
50% effective depth (m)	2.25	0.00	0.00
25% effective depth (m)	2.63	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.77	0.00	0.00
ap 50	4.8	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	Insufficient fall in water to complete test	
Soil infiltration rate (mm/hr)	Insufficient fall in water to complete test	

- Notes:
- 1

Blue cells require input data
- 2

Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
- 3

First line of table must be depth at time = 0