

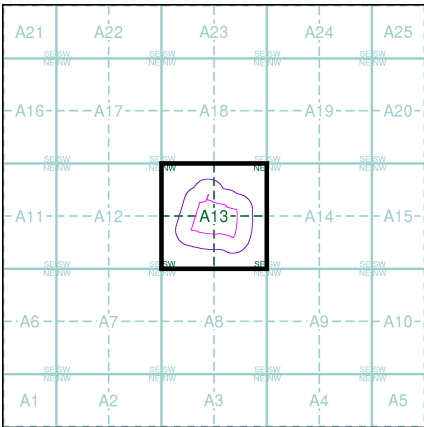


Geo-Environmental
Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 321564727_1_1
Customer Ref: GE22017
National Grid Reference: 521320, 113120
Slice: A
Site Area (Ha): 5.13
Search Buffer (m): 100

Site Details

Land off, Shoreham Road, Small Dole, West Sussex

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Project No.	GE22017
Name	Shoreham Road, Small Dole
Client	Wates
Location	Small Dole
Engineer	
 William Hughes	william.hughes@gesl.net
Date	13/12/2023, 15:11
Coordinates of Site	50° 54' 20.036" N 0° 16' 35.284" W
Version	1
Project Manager	
 Jonathan Tingley	jonathan.tingley@gesl.net
 Jason Kanellis	jason.kanellis@gesl.net
Features Noted	☐ Signs of Landslide ☐ Signs of Subsidence ☐ ASTs ☐ USTs ☐ Retaining walls ☒ Trees ☐ Hard/soft landscaping ☐ Hard Landscaping ☒ Soft Landscaping ☐ Evidence of Surface Staining ☐ Evidence of Buried Services ☐ Overhead Services ☐ Evidence of Filled Ground ☐ Stockpiles ☐ Evidence of Fly Tipping ☐ Evidence of ACMs ☐ Evidence of Vegetation Die Back ☒ Evidence of High Water Table ☐ Evidence of Dissolution Features ☐ Drums/Barrels ☐ Roof Materials ☐ Other
Current Site Use	Field
Approximate Site Area	
Shape of Site	Square
Topography	Undulating
Description of Topography	
Was Internal Inspection	

Possible

Yes

Site Overview Photographs

1 record

View from North facing South



View from East facing West



View from South facing North



View from West facing East



Descriptions of any Buildings

0 records

Trees

2 records

Trees	1
Description	Boundary
Photo	A photograph of a grassy field with a small stream or ditch running through it. The field is covered in green and brown grass, and the stream is filled with water. In the background, there are hills and a small building. The sky is overcast with grey clouds.
Trees	2
Description	Boundary
Photo	



Soft Landscaping

1 record

Soft Landscaping	1
Description	Grass
Photo(s)	

Evidence of High Water Table

1 record

Evidence of High Water Table	1
Description	
Photo(s)	



Approved By

No users

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 521333,113125



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military**
- industry**
- UXO find**
- transport**
- dock**
- Luftwaffe targets**
- utilities**
- Bombing decoy**
- other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682

email: uxo@zetica.com

web: www.zeticauxo.com

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.



APPENDIX B

Exploratory Hole Logs & Section Drawings



 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP01		
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1			
	Easting: 521222.8	Northing: 113064.5	Ground Level: 9.56mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	Scale: 1:25			
Trial Pit Log		Weather: Sunny		Hole Termination:		Stability: Sides unstable below water table			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.40	ES1	PP=0.9kg/cm2	9.26	(0.30)		Grass over very soft grey very sandy silty clay with frequent rootlets TOPSOIL			
0.50	D1			(0.30)		Firm brown very sandy silty CLAY with occasional rootlets and numerous gravel comprising sub-angular sandstone LOWER GREENSAND GROUP	0.5		
0.90	ES2	PP=1kg/cm2	7.81	(1.45)			1.0		
1.00	D2			(1.45)			1.5		
1.50	D3						2.0	  	
2.00	D4			(0.50)		Brown gravelly silty very clayey SAND. Gravel comprises sub-angular sandstone. Frequent very soft brown clay pockets LOWER GREENSAND GROUP	2.0		
2.25	D5		7.31 7.31	2.25		Very weak grey SANDSTONE Western side of pit only LOWER GREENSAND GROUP	2.5		
						End of Trial Pit at 2.25m	3.0		
							3.5		
Dimensions:						Photo:			
Final Depth:	2.25m					 TP01 - Pit			
Final Width:	0.50m								
Final Length:	2.40m								
Remarks						 TP01 - Spoil			
Refusal due to density and water									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						
1.80	1.80		0						
0.00	0.00		0						
2.10	2.05		7						



Trial Pit ID:	TP02
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Status:	PRELIM
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Sheet 1 of 1

Trial Pit Log

Date Printed:
08/12/2023

Scale: 1:25

Weather: Overcast

Hole Termination:

Stability: Sides stable

[illegible]

Dimensions:

Final Depth:	2.00m
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Final Width:	0.50m
--------------	-------

Final Length:	2.20m
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Remarks

Refusal due to water

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)
0.20	0.20	0
1.70	1.70	0
2.00	1.90	6

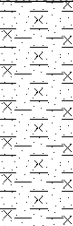
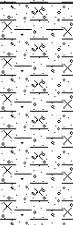
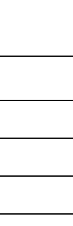
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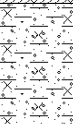
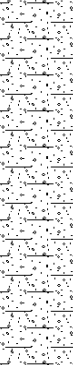


TP02 - Pit

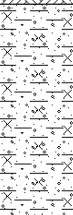
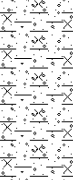


TP02 - Spoil

 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP03				
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1					
	Easting: 521357.0	Northing: 113085.1	Ground Level: 12.91mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	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					
0.50 0.60	D1 ES1	PP=0.5kg/cm2	12.26	(0.65)		Grass over very soft dark brown sandy silty clay with frequent rootlets TOPSOIL		0.5			
				0.65		Firm brown and orangish brown mottled very sandy silty CLAY with occasional rootlets LOWER GREENSAND GROUP <i>...pocket of firm laminated grey slightly sandy silty CLAY with frequent black organic material</i>		1.0			
1.00 1.00	D2 ES2	PP=1.2kg/cm2	11.51	(0.75)		Firm brown slightly gravelly very sandy silty CLAY. Gravel comprises sub-angular to sub-rounded flint and sandstone LOWER GREENSAND GROUP		1.5			
1.50	D3	PP=1.1kg/cm2		1.40				2.0			
2.00 2.00	D4 ES3		10.26	(1.25)				2.5			
2.50	D5	PP=1kg/cm2		2.65		End of Trial Pit at 2.65m		3.0			
								3.5			
Dimensions:										Photo:	
Final Depth:		2.65m								 TP03 - Pit	
Final Width:		0.50m									
Final Length:		2.20m									
Remarks										 TP03 - Spoil	
Refusal due to water											
Water Strikes (mbgl)											
Depth Strike		Rose to		Time Elapsed (mins)							
2.65		2.62		7							

 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP04			
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1				
	Easting: 521387.8	Northing: 113129.2	Ground Level: 15.40mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	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				
0.50 0.50	D1 ES1	PP=1.2kg/cm2	15.15	0.25		Grass over very soft dark brown sandy silty clay with abundant rootlets TOPSOIL			0.5	
				(0.45)		Firm orangish brown and brown mottled slightly gravelly sandy silty CLAY with occasional rootlets LOWER GREENSAND GROUP				
1.00	D2		14.70	0.70		Brown silty gravelly clayey SAND. Gravel comprises sub-angular sandstone with occasional cobbles. Frequent clay lenses. LOWER GREENSAND GROUP				
1.30	ES2			(1.50)					1.0	
1.50	D3									
2.00	D4									
2.20	D5		13.20 13.20	2.20		Grey SANDSTONE LOWER GREENSAND GROUP End of Trial Pit at 2.20m			2.0	
									2.5	
									3.0	
									3.5	
Dimensions:						Photo:				
Final Depth:	2.20m					 TP04 - Pit				
Final Width:	0.50m									
Final Length:	2.20m									
Remarks						 TP04 - Spoil				
Refusal due to density										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP05				
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1					
	Easting: 521421.9	Northing: 113084.9	Ground Level: 13.59mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	Scale: 1:25					
Trial Pit Log		Weather: Showers		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					
0.20	ES1		13.24	(0.35)		Grass over very soft dark brown slightly sandy silty clay with frequent rootlets and occasional flint gravel TOPSOIL			0.5		
0.50	D1			0.35		Firm brown and orange mottled sandy silty CLAY with occasional rootlets, and flint and sandstone gravel. LOWER GREENSAND GROUP					
0.50	ES2			(1.05)							
1.00	D2	PP=1.1kg/cm2	12.19	1.40		Firm brown gravelly sandy silty CLAY with rare rootlets. Gravel comprises fine to medium sub-angular sandstone. LOWER GREENSAND GROUP			1.5		
1.50	D3			(0.90)							
1.80	ES3			2.30							
2.00	D4	PP=0.8kg/cm2	11.29	2.40		Orangish brown very clayey silty SAND. Damp LOWER GREENSAND GROUP			2.0		
2.45	D7			2.48		Weak grey SANDSTONE with frequent brown staining LOWER GREENSAND GROUP					
2.50	D5			(0.42)		Greyish brown gravelly silty very clayey SAND. Gravel comprises sub-angular sandstone. LOWER GREENSAND GROUP					
2.90	D6		10.69	2.90		End of Trial Pit at 2.90m			3.0		
									3.5		
Dimensions:					Photo:						
Final Depth:	2.90m					 TP05 - Pit					
Final Width:	0.50m										
Final Length:	2.20m										
Remarks						 TP05 - Spoil					
Refusal due to density											
Water Strikes (mbgl)											
Depth Strike		Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP06		
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1			
	Easting: 521374.0	Northing: 113054.6	Ground Level: 11.30mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	Scale: 1:25			
Trial Pit Log		Weather: Showers		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		10.70	(0.60)		Grass over very soft dark brown sandy silty clay with frequent rootlets and occasional flint gravel and cobbles TOPSOIL		0.5	
0.50	D1			0.60		Firm brown and orange mottled slightly gravelly sandy silty CLAY with occasional rootlets. Gravel comprises sub-angular to sub-rounded flint and sandstone. LOWER GREENSAND GROUP		1.0	
0.80	ES2		(1.30)		Brown gravelly silty very clayey SAND with frequent clay pockets and lenses. Gravel comprises sub-angular weak sandstone. LOWER GREENSAND GROUP		1.5		
1.00	D2						1.90	2.0	
1.50	D3		9.40	(0.60)	End of Trial Pit at 2.50m		2.5		
2.00	D4		8.80	2.50			3.0		
2.50	D5							3.5	
Dimensions:					Photo:				
Final Depth:	2.50m				 TP06 - Pit				
Final Width:	0.50m								
Final Length:	2.20m								
Remarks					 TP06 - Spoil				
Refusal due to density and water									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						
2.50	2.48		5						

 Geo-Environmental	Contract Name: Shoreham Road, Small Dole			Client: Wates Developments			Trial Pit ID: TP07			
	Contract Number: GE22017	Date Started: 09/11/2023	Logged By: WH	Checked By:	Status: PRELIM	Sheet 1 of 1				
	Easting: 521266.8	Northing: 113138.0	Ground Level: 14.70mOD	Plant Used: JCB 3CX	Date Printed: 08/12/2023	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				
0.20	ES1		14.40	(0.30)		Grass over very soft dark brown sandy silty clay with frequent rootlets TOPSOIL				
0.50	D1			0.30		Brown and orange mottled very clayey silty gravelly SAND with frequent rootlets and cobbles. Gravel comprises sub-angular to sub-rounded flint and sandstone. Frequent brown and dark orange very soft clay pockets. LOWER GREENSAND GROUP			0.5	
0.80	ES2									
1.00	D2									
1.50	D3		(1.90)						1.5	
2.00	D4								2.0	
2.20	D5		12.50	2.20		End of Trial Pit at 2.20m			2.5	
									3.0	
									3.5	
Dimensions:					Photo:					
Final Depth:	2.20m				 TP07 - Pit					
Final Width:	0.50m									
Final Length:	2.40m									
Remarks					 TP07 - Spoil					
Refusal due to density										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							



www.gesl.net

Borehole Log

WS01

Sheet 1 of 1

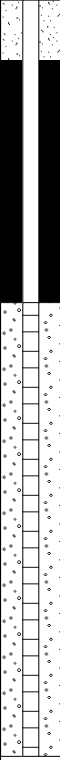
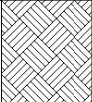
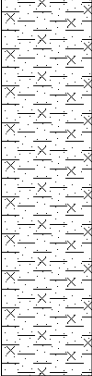
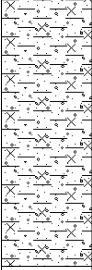
Project No.	GE22017
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Hole Type	WLS
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Scale
1:25

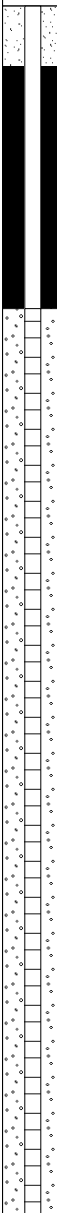
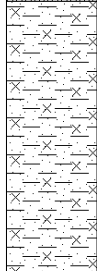
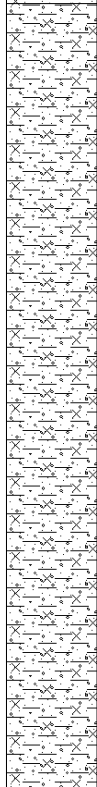
Logged By
JK

Status
PRELIM

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS02 Sheet 1 of 1	
Project Name: Shoreham Road, Small Dole				Project No. GE22017		Co-ords: 521318E - 113046N		Hole Type WLS	
Location: Small Dole, West Sussex				Level: 9.94		Scale 1:25			
Client: Wates Developments				Dates: 09/11/2023		Logged By JK			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES	1.0kg/cm2	0.35	9.59	 Dark greyish brown silty sandy clay with frequent rootlets and rare fine to medium flint gravel. TOPSOIL	1	
	0.50 0.50	D PP							
	1.00	D	2.0kg/cm2	1.60	8.34	 Firm becoming stiff light yellowish brown and light orangish brown mottled sandy silty CLAY with rare roots (1mm) to 0.80m bgl. LOWER GREENSAND GROUP	2		
	1.50 1.50	D PP							
	2.00	D							
		2.50	D		2.50	7.44	 Firm light brown and grey mottled sandy silty CLAY with occasional black specks and frequent siltstone inclusions and lenses. LOWER GREENSAND GROUP	3	
End of Borehole at 2.50m									4
5									
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Refused at 2.50m bgl.				


Status
PRELIM

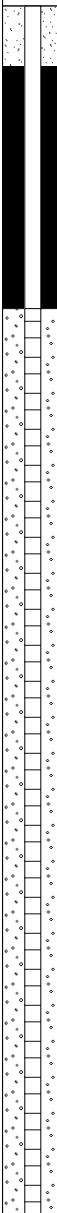
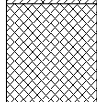
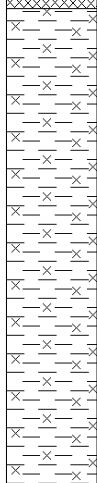
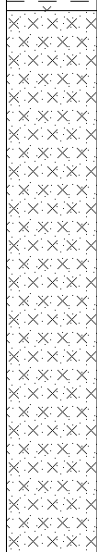
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Project Name: Shoreham Road, Small Dole			Project No. GE22017		Co-ords: 521423E - 113038N		Hole Type WLS
Location: Small Dole, West Sussex			Level: 11.06		Scale 1:25		
Client: Wates Developments			Dates: 09/11/2023		Logged By JK		

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	10.76		Dark brown silty sandy clay with frequent rootlets, rare roots (4mm) and glass. TOPSOIL	1
		0.40 0.40	ES PP	1.5kg/cm2	0.50	10.56		Reworked greenish brown silty sandy clay with rare rootlets. MADE GROUND	
		1.00 1.00	D PP	1.5kg/cm2				Firm to stiff light brown and light greyish brown mottled silty sandy CLAY with frequent siltstone inclusions. LOWER GREENSAND GROUP	
								... frequent ferruginous inclusions between 1.05m and 1.50m bgl.	
		1.50	D		1.40	9.66		Light greyish brown and grey mottled sandy silty CLAY with frequent siltstone inclusions and lenses. LOWER GREENSAND GROUP	2
		2.00	D						
		2.50	D						
		3.00	D						3
		3.50	D						
		4.00	D		4.00	7.06		End of Borehole at 4.00m	4
									5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			3.00	3.00	


 Status
 PRELIM

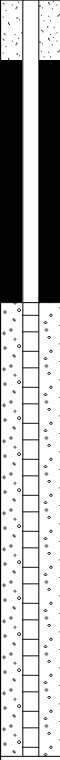
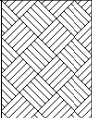
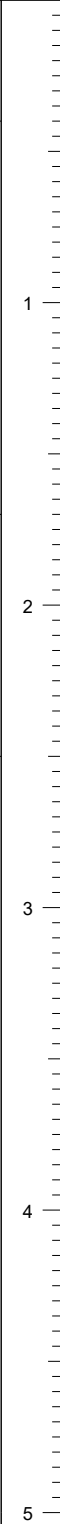
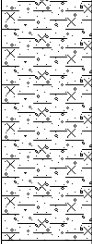
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log Borehole No. WS04 Sheet 1 of 1			
Project Name: Shoreham Road, Small Dole		Project No. GE22017		Co-ords: 521438E - 113120N		Hole Type WLS	
Location: Small Dole, West Sussex				Level: 15.65		Scale 1:25	
Client: Wates Developments				Dates: 09/11/2023		Logged By JK	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.25	15.40		Dark brown silty sandy clay with frequent rootlets. TOPSOIL	1
		0.50 0.50	D PP	1.5kg/cm2	0.60	15.05		Reworked brown silty sandy clay with rare fine flint and rootlets. MADE GROUND	
		1.00 1.00	D PP	1.5kg/cm2	2.20	13.45		Firm to stiff yellowish brown sandy silty CLAY with frequent siltstone. LOWER GREENSAND GROUP	2
		1.50 1.50	D PP	1.0kg/cm2					
		2.00 2.00	D PP	1.5kg/cm2					
		2.50	D						
		3.00	D		4	11.65		Yellowish brown gravelly sandy silty CLAY. Gravel comprises fine to medium sub-angular sandstone. LOWER GREENSAND GROUP	3
		3.50	D						
		4.00	D						
			End of Borehole at 4.00m						
									5

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

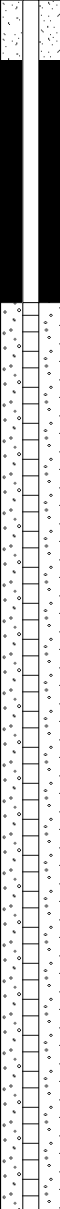
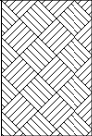
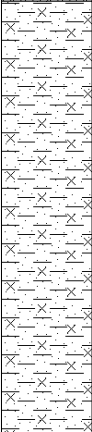
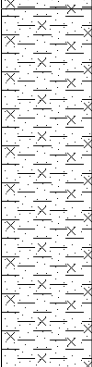
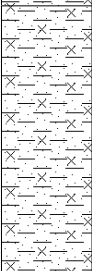


Status
PRELIM

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS05 Sheet 1 of 1	
Project Name: Shoreham Road, Small Dole				Project No. GE22017		Co-ords: 521329E - 113125N		Hole Type WLS	
Location: Small Dole, West Sussex				Level: 14.86		Scale 1:25			
Client: Wates Developments				Dates: 09/11/2023		Logged By JK			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.40	14.46		Dark greyish brown silty sandy clay with frequent rootlets and rare fine to medium flint gravel. TOPSOIL	
	0.50 0.50	D PP	2.0kg/cm2						
	1.00 1.00	D PP	2.0kg/cm2						
	1.50	D							
	2.00	D							
		2.50	D		2.50	12.36		Firm dark greenish grey and light brown mottled sandy silty CLAY with abundant siltstone lenses and inclusions. LOWER GREENSAND GROUP	
End of Borehole at 2.50m									
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Refused on SILTSTONE at 2.50m bgl.				



Status
PRELIM

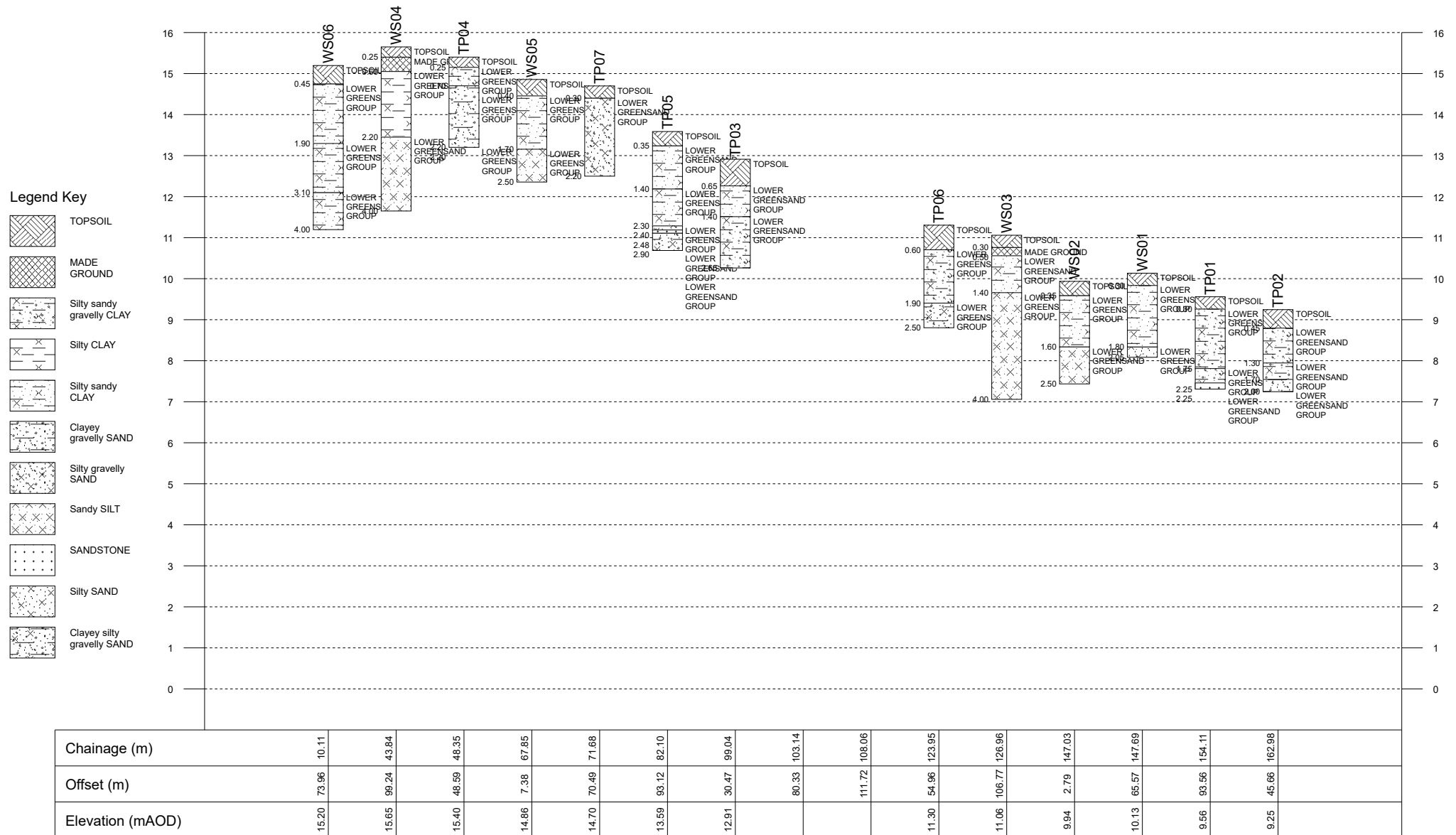
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log			Borehole No. WS06 Sheet 1 of 1				
Project Name: Shoreham Road, Small Dole		Project No. GE22017		Co-ords: 521280E - 113198N		Hole Type WLS			
Location: Small Dole, West Sussex				Level: 15.20		Scale 1:25			
Client: Wates Developments				Dates: 09/11/2023		Logged By JK			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.45	14.75		Dark brown silty sandy clay with frequent rootlets and rare fine to coarse flint gravel. TOPSOIL	1
	0.50 0.50	D PP	1.2kg/cm2						
	1.00 1.00	D PP	1.8kg/cm2	1.90	13.30		Firm and stiff orangish brown and dark orangish brown flecked sandy silty CLAY. LOWER GREENSAND GROUP	2	
	1.50 1.50	D PP	1.0kg/cm2						
	2.00 2.00	D PP	1.5kg/cm2	3.10	12.10		Firm light orangish brown and occasionally orangish brown mottled sandy silty CLAY with rare claystone inclusions. LOWER GREENSAND GROUP	3	
	2.50	D							
	3.00	D		4.00	11.20		Firm and stiff light yellowish brown and occasionally orangish brown mottled silty sandy CLAY with frequent siltstone inclusions. LOWER GREENSAND GROUP	4	
	3.50 3.50	D PP	2.5kg/cm2						
	4.00 4.00	D PP	1.0kg/cm2	End of Borehole at 4.00m		5			
	Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks				
Depth Top	Depth Base	Diameter	Depth Strike	Rose To					
					 Status PRELIM				

Title: Section line 1

Vertical Scale: 1:131

Horizontal Scale: Not to scale

Engineer:





APPENDIX C

Ground Gas Assessment



Project: Henfield Road, Small Dole
Ref: GE22017
Client: Wates Developments



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	17/11/23	0	0.0	0.1	21.2	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	10	0.0	0.1	21.2	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	20	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	30	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	60	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	90	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	120	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	17/11/23	180	0.0	0.1	21.1	0.0	0.7	1021	0.90	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	0	0.0	0.1	21.1	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	10	0.0	0.1	21.1	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	20	0.0	0.1	21.1	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	30	0.0	0.1	21.1	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	60	0.0	0.1	21.2	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	90	0.0	0.1	21.2	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	120	0.0	0.1	21.2	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	17/11/23	180	0.0	0.1	21.2	0.0	0.2	1022	0.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	0	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	10	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	20	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	30	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	60	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	90	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	120	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	17/11/23	180	0.0	0.0	21.2	0.0	0.0	1022	0.78	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	0	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	10	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	20	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	30	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	60	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	90	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	120	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	17/11/23	180	0.0	0.0	21.3	0.0	0.0	1022	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	0	0.0	0.0	21.4	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	10	0.0	0.0	21.4	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	20	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	30	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	60	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	90	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	120	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	17/11/23	180	0.0	0.0	21.5	0.0	0.0	1021	0.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	0	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	10	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	20	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	30	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	60	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Henfield Road, Small Dole
 Ref: GE22017
 Client: Wates Developments



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS06	17/11/23	90	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	120	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	17/11/23	180	0.0	0.0	21.6	0.0	0.0	1021	1.25	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	0	0.0	0.0	21.9	0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	10	0.0	3.8	21.7	0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	20	0.0	3.9	19.7	0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	30				0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	60				0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	90				0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	120				0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	24/11/23	180				0.0	0.0	1020	0.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	0	0.0	0.0	21.9	0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	10	0.1	3.6	21.1	0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	20				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	30				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	60				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	90				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	120				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	24/11/23	180				0.0	0.0	1020	0.11	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	0	0.0	0.0	21.4	0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	10	0.0	3.3	20.9	0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	20	0.0	3.5	19.0	0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	30	0.0	3.7	18.8	0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	60				0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	90				0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	120				0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	24/11/23	180				0.0	0.1	1020	0.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	0	0.0	0.0	21.4	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	10	0.0	0.1	21.4	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	20	0.0	0.1	20.0	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	30	0.0	0.9	20.1	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	60	0.0	2.3	13.0	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	90	0.0	2.7	12.5	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	120	0.0	2.8	12.7	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	24/11/23	180	0.0	3.0	13.1	0.0	0.0	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	0	0.0	0.0	21.7	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	10	0.0	2.4	21.2	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	20	0.0	2.5	17.6	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	30	0.0	2.5	16.4	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	60	0.0	2.5	16.3	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	90	0.0	2.4	16.3	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	120	0.0	2.3	16.5	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	24/11/23	180	0.0	1.4	18.3	0.0	0.0	1020	2.37	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	0	0.0	0.0	21.9	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	10	0.0	2.6	21.5	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Henfield Road, Small Dole
 Ref: GE22017
 Client: Wates Developments



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS06	24/11/23	20	0.0	2.6	19.4	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	30	0.1	2.6	19.0	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	60	0.0	2.6	19.0	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	90	0.0	2.6	19.1	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	120	0.0	2.5	19.2	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	24/11/23	180	0.0	2.2	19.4	0.0	0.2	1020	1.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	0	0.0	0.0	21.5	0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	10	0.0	5.7	19.2	0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS01	13/12/23	20	0.0	5.8	17.8	0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS01	13/12/23	30				0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	60				0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	90				0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	120				0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/12/23	180				0.0	0.0	1004	0.39	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	0	0.0	0.3	21.6	0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	10	0.0	0.3	21.0	0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	20				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	30				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	60				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	90				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	120				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	13/12/23	180				0.0	0.5	1004	0.10	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	0	0.0	0.0	21.4	0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	10	0.0	3.7	22.1	0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	20	0.0	3.7	19.7	0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	30	0.0	3.7	19.4	0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	60				0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	90				0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	120				0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/12/23	180				0.0	0.0	1005	0.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	0				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	10				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	20				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	30				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	60				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	90				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	120				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	13/12/23	180				0.0		0	3.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	0				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	10				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	20				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	30				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	60				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	90				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	13/12/23	120				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Henfield Road, Small Dole
Ref: GE22017
Client: Wates Developments



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS05	13/12/23	180				0.0		0	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	0				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	10				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	20				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	30				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	60				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	90				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	120				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	13/12/23	180				0.0		0	1.18	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
Max values			0.1	5.8	22.1	0.0	0.7	1022.0	3.8	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
Min Vaules			0.0	0.0	12.5	0.0	0.0	0.0	0.1	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			0.1	5.8	22.1	0.1	-	-	-	0.000	0.006	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1



APPENDIX D

Geotechnical Laboratory Results



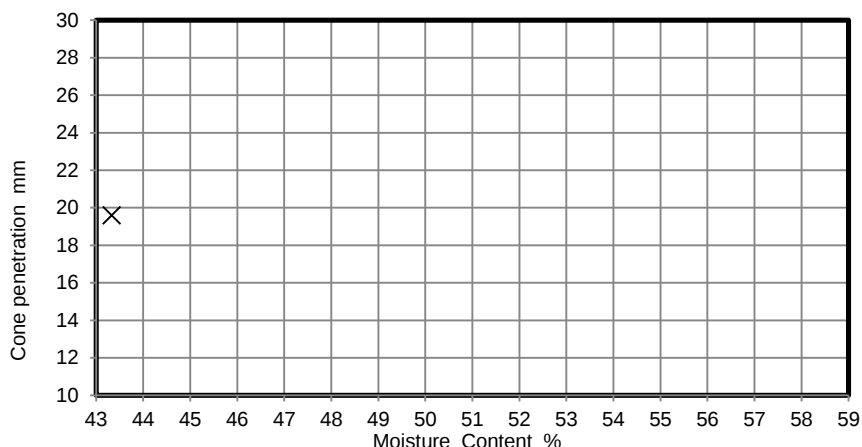
		Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results									
Job No.		Project Name						Programme			
34417		Shoreham Road, Small Dole						Samples received	16/11/2023		
Project No.		Client						Schedule received	13/11/2023		
GE22017		GESL						Project started	17/11/2023		
								Testing Started	29/11/2023		
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
TP01	2	1.00	-	D	Orangish brown and light grey slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	24	82	44	21	23	
TP01	4	2.00	-	D	Brown and light grey slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	34	67	41	23	18	Sample washed to obtain test fraction
TP02	2	1.00	-	D	Orangish brown and light greyish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	25	76	40	20	20	Sample washed to obtain test fraction
TP02	3	1.50	-	D	Brown and light grey slightly gravelly sandy silty CLAY with traces of rootlets (gravel is fmc weakly cemented sandstone fragments)	34	86	42	19	23	Sample washed to obtain test fraction
TP03	2	1.00	-	D	Dark greyish brown and occasional orangish brown sandy silty CLAY with occasional dark grey carbonaceous deposits and rare fm weakly cemented sandstone fragments	30	99	56	26	30	
TP03	4	2.00	-	D	Orangish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	23	69	39	19	20	Sample washed to obtain test fraction
TP04	2	1.00	-	D	Orangish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	30	69	45	22	23	Sample washed to obtain test fraction
TP05	1	0.50	-	D	Orangish brown, greyish brown and occasional brown slightly gravelly sandy silty CLAY with occasional dark grey carbonaceous fragments (gravel is fm weakly cemented sandstone fragments)	25	90	43	20	23	Sample washed to obtain test fraction
TP05	3	1.50	-	D	Orangish brown gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	24	61	38	20	18	Sample washed to obtain test fraction
TP06	2	1.00	-	D	Orangish brown and occasional light grey slightly gravelly sandy silty CLAY with traces of roots (gravel is fmc weakly cemented sandstone fragments)	25	84	39	20	19	Sample washed to obtain test fraction
TP06	4	2.00	-	D	Orangish brown and light greyish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	24	80	39	19	20	Sample washed to obtain test fraction
TP07	2	1.00	-	D	Orangish brown gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	27	53	47	24	23	Sample washed to obtain test fraction

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	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: 08/12/2023
	NOTE: The report shall not be reproduced except in full without authority of the laboratory		
	2519		Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)
	MSF-5-R1(b)		



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP01
Site Name	Shoreham Road, Small Dole			Sample No.	2
Project No.	GE22017	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown and light grey slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	30/11/2023

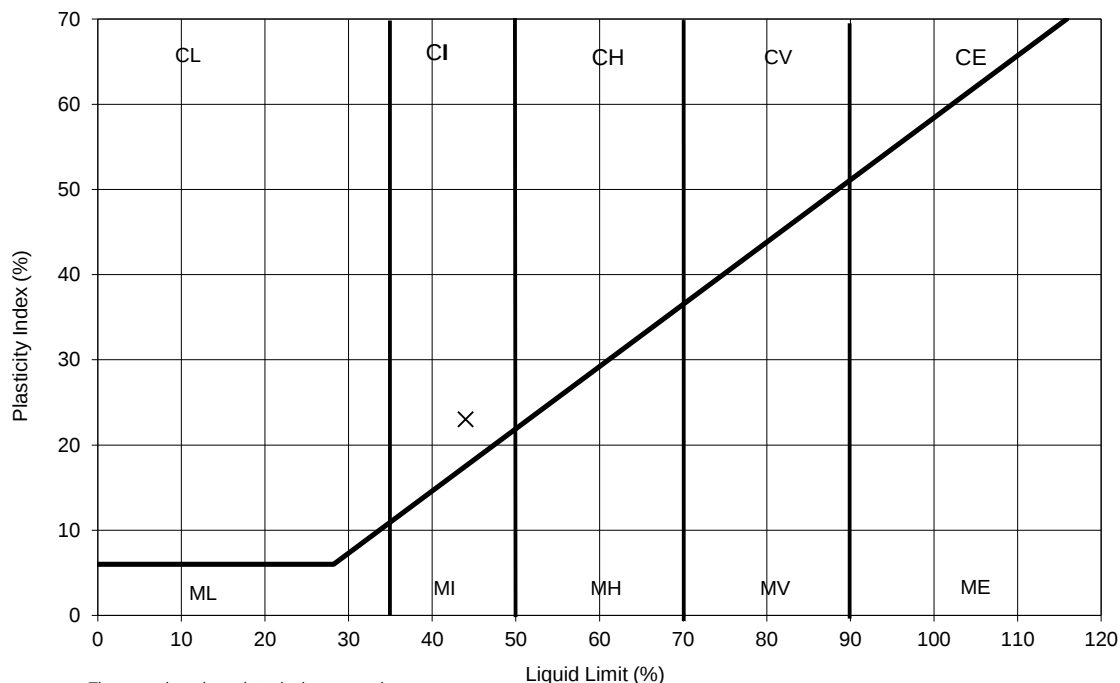


NATURAL MOISTURE CONTENT	24	%
% PASSING 425µm SIEVE	82	%
LIQUID LIMIT	44	%
PLASTIC LIMIT	21	%
PLASTICITY INDEX	23	%

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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

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

Checked and Approved

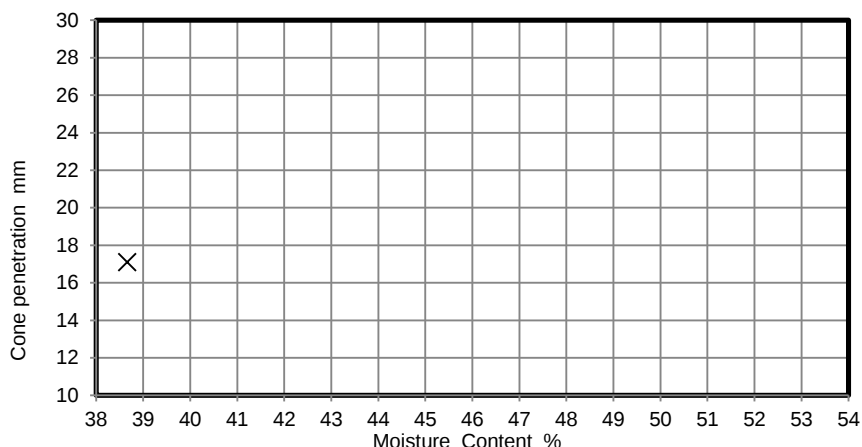
Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP01
Site Name	Shoreham Road, Small Dole			Sample No.	4
Project No.	GE22017	Client	GESL	Depth Top m	2.00
Soil Description	Brown and light grey slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	30/11/2023



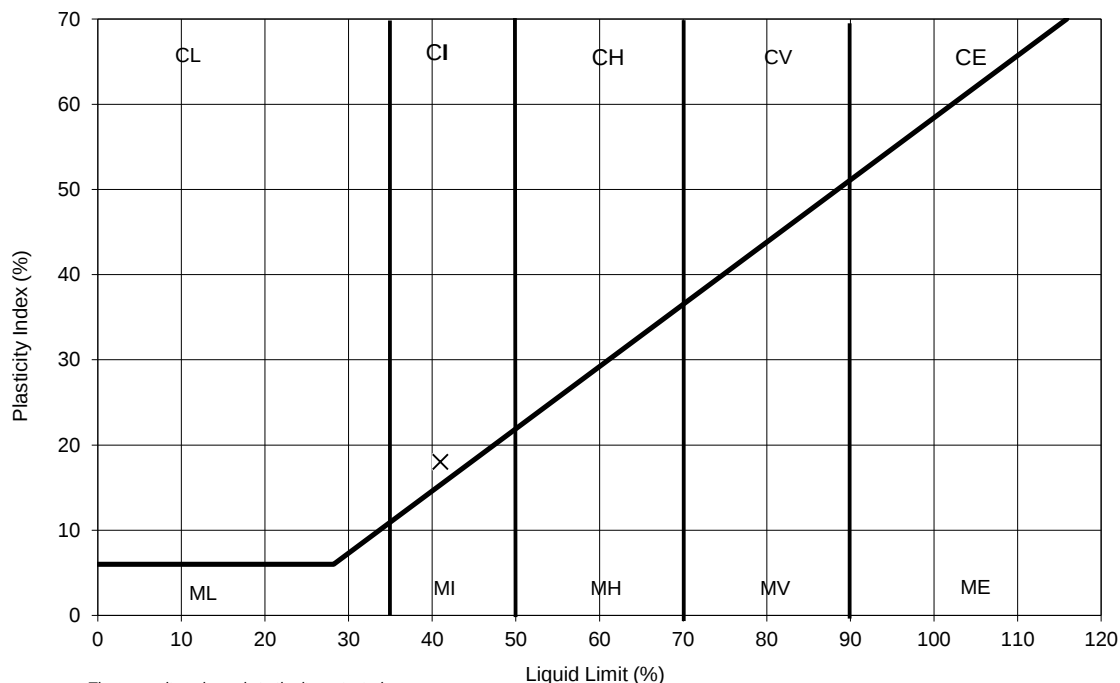
NATURAL MOISTURE CONTENT	34	%
% PASSING 425µm SIEVE	67	%
LIQUID LIMIT	41	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	18	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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

TEST METHOD

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

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

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

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

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

Checked and Approved

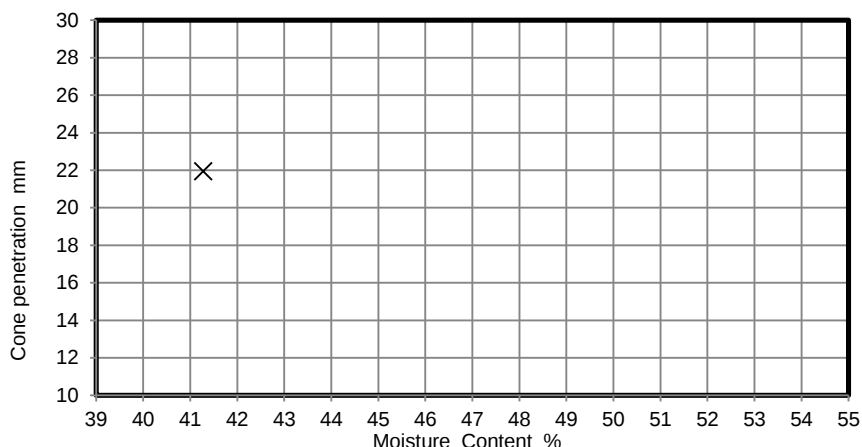
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Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP02
Site Name	Shoreham Road, Small Dole			Sample No.	2
Project No.	GE22017	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown and light greyish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023



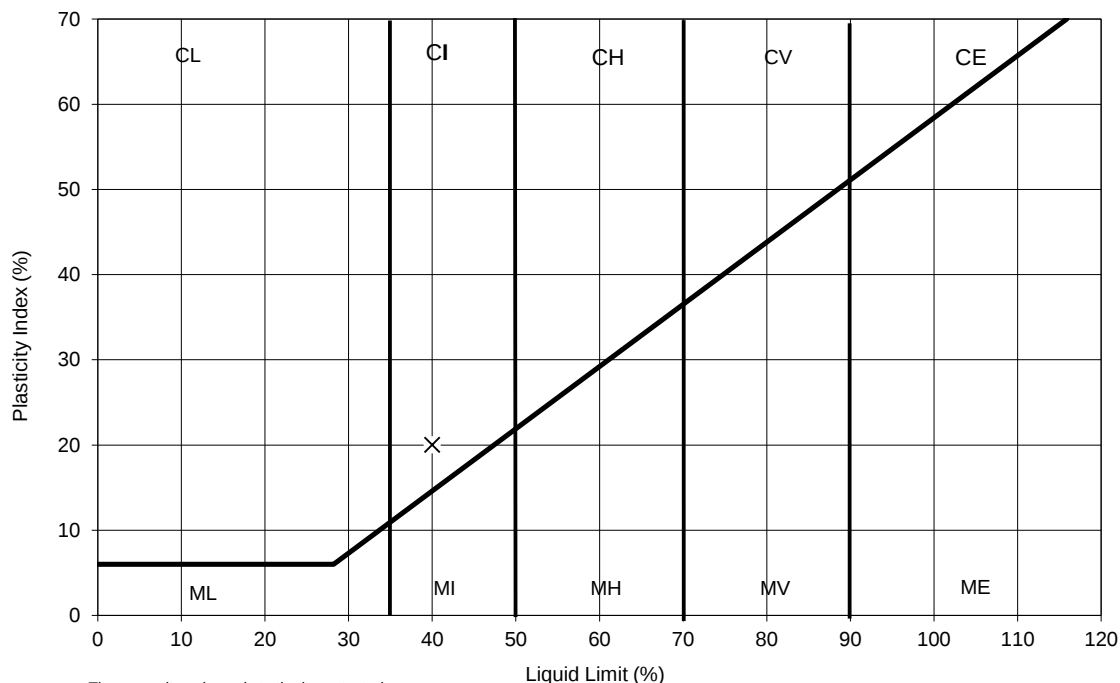
NATURAL MOISTURE CONTENT	25	%
% PASSING 425µm SIEVE	76	%
LIQUID LIMIT	40	%
PLASTIC LIMIT	20	%
PLASTICITY INDEX	20	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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



TEST METHOD

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

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

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

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

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

Checked and Approved

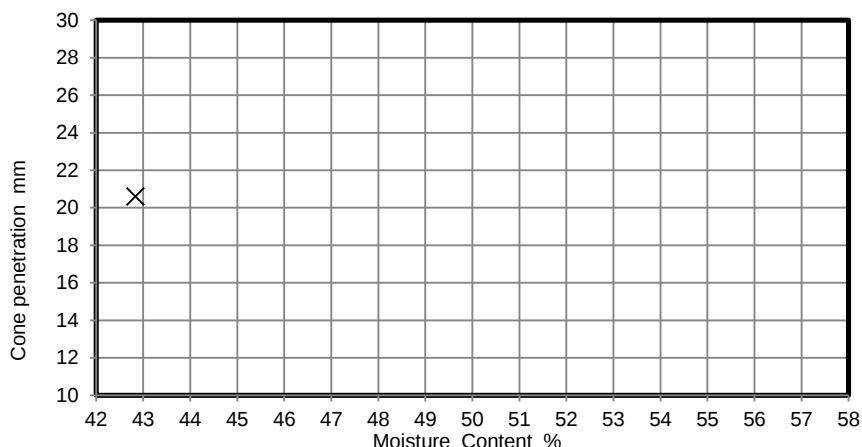
Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP02
Site Name	Shoreham Road, Small Dole			Sample No.	3
Project No.	GE22017	Client	GESL	Depth Top m	1.50
Soil Description	Brown and light grey slightly gravelly sandy silty CLAY with traces of rootlets (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	05/12/2023



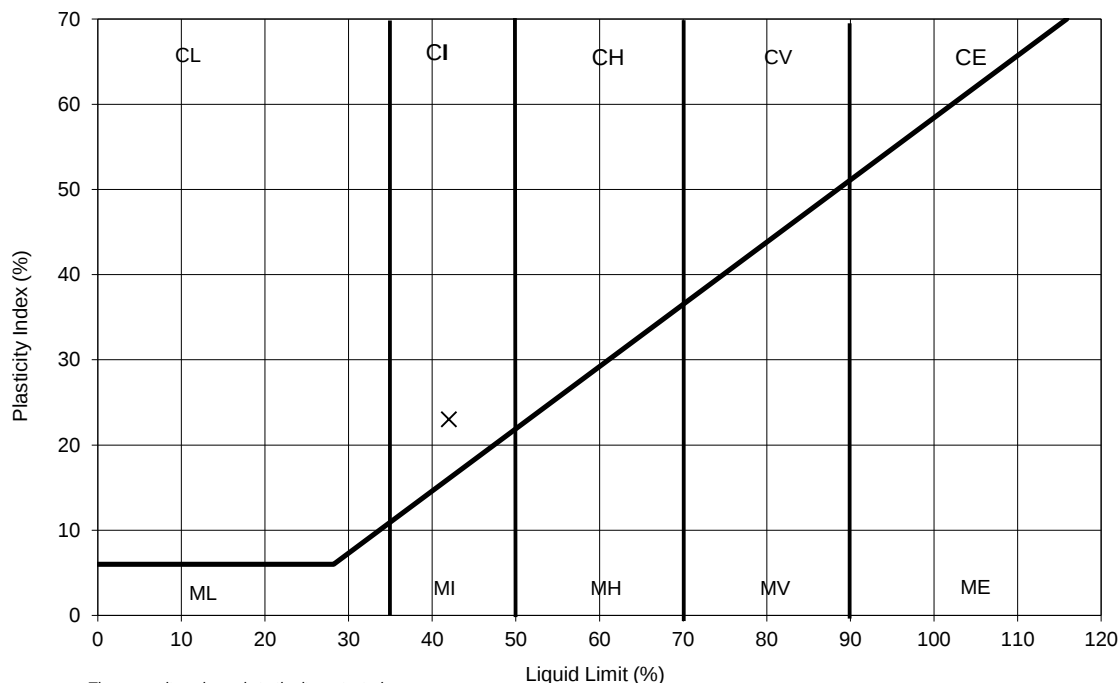
NATURAL MOISTURE CONTENT	34	%
% PASSING 425µm SIEVE	86	%
LIQUID LIMIT	42	%
PLASTIC LIMIT	19	%
PLASTICITY INDEX	23	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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

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

Checked and Approved

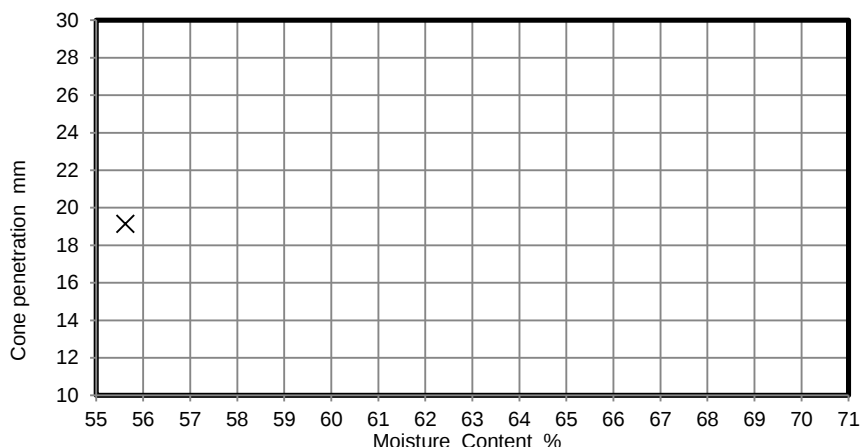
Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP03
Site Name	Shoreham Road, Small Dole			Sample No.	2
Project No.	GE22017	Client	GESL	Depth Top m	1.00
Soil Description	Dark greyish brown and occasional orangish brown sandy silty CLAY with occasional dark grey carbonaceous deposits and rare fm weakly cemented sandstone fragments			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	30/11/2023

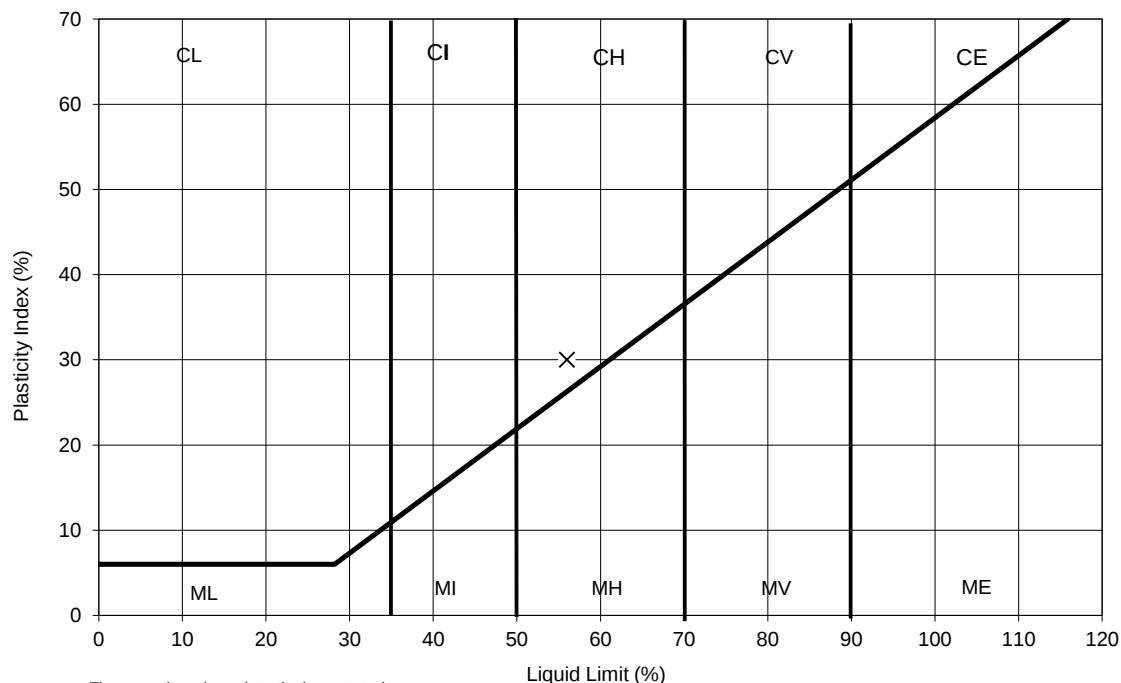


NATURAL MOISTURE CONTENT	30	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	56	%
PLASTIC LIMIT	26	%
PLASTICITY INDEX	30	%

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. TP03

Site Name Shoreham Road, Small Dole

Sample No. 4

Project No. GE22017

Client

GESL

Depth Top m 2.00

Soil Description

Orangish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)

Depth Base m -

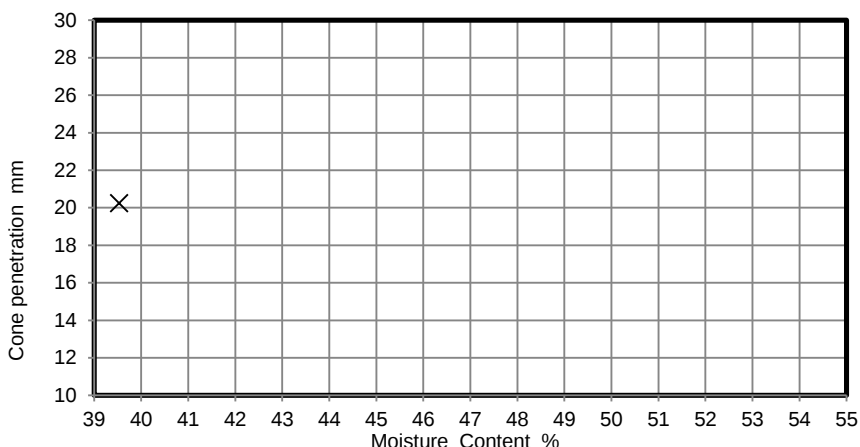
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 29/11/2023



NATURAL MOISTURE CONTENT

23

%

% PASSING 425µm SIEVE

69

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

20

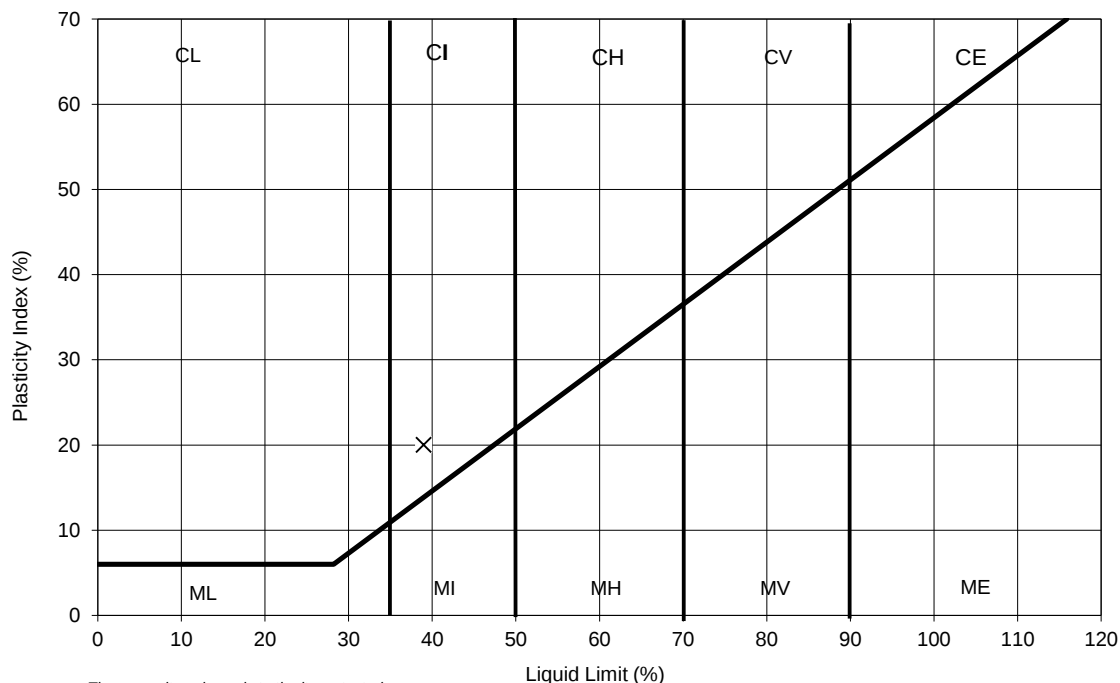
%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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

TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

2519

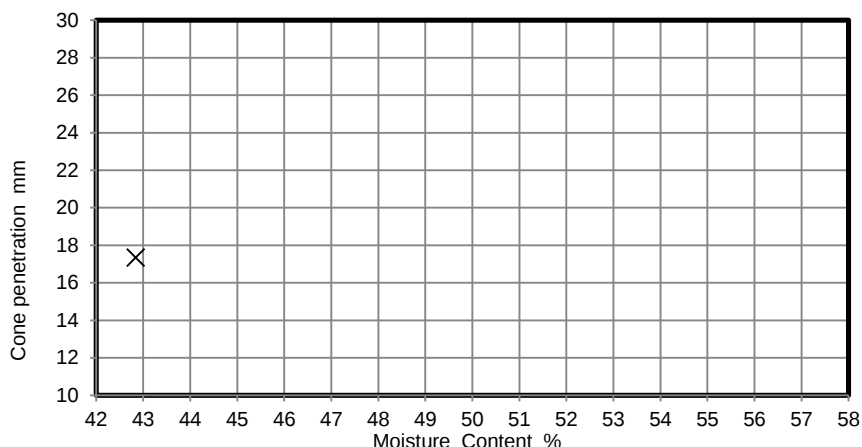
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	34417		
	Borehole/Pit No.		
Sample No.	2		
Depth Top m	1.00		
Depth Base m	-		
Sample Type	D		
Samples received	16/11/2023		
Schedules received	13/11/2023		
Project Started	17/11/2023		
Date Tested	29/11/2023		



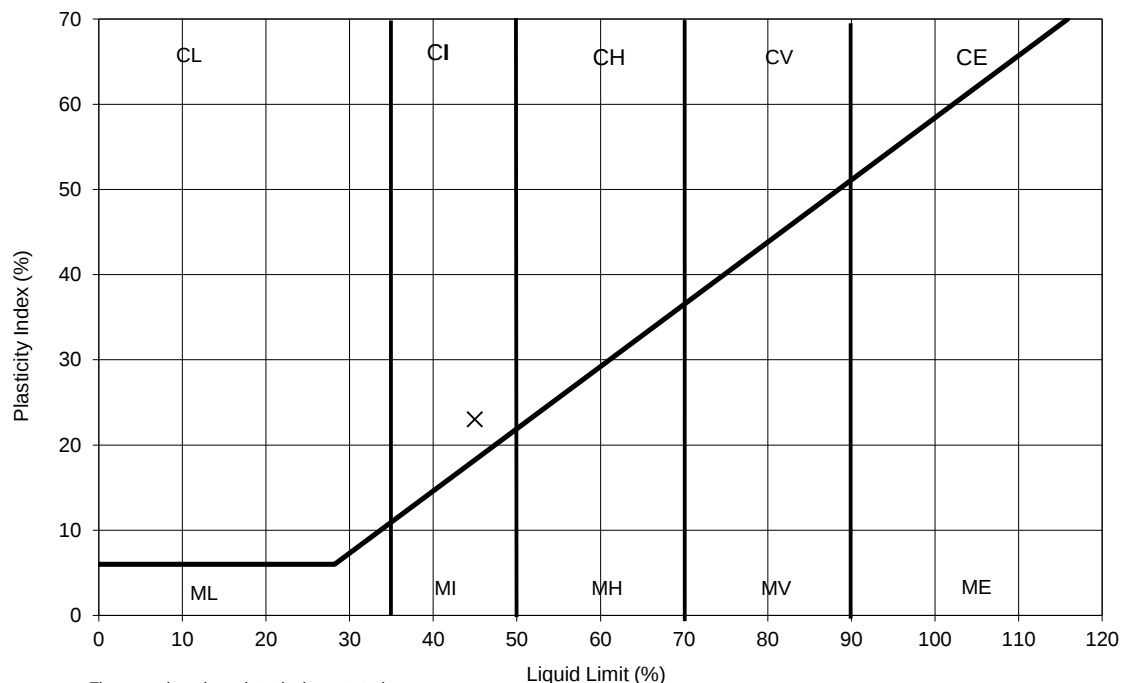
NATURAL MOISTURE CONTENT	30	%
% PASSING 425µm SIEVE	69	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	23	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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

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

Checked and Approved

Initials: J.P

Date: 08/12/2023

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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. TP05

Site Name Shoreham Road, Small Dole

Sample No. 1

Project No. GE22017

Client

GESL

Depth Top m 0.50

Soil Description

Orangish brown, greysh brown and occasional brown slightly gravelly sandy silty CLAY with occasional dark grey carbonaceous fragments (gravel is fm weakly cemented sandstone fragments)

Depth Base m -

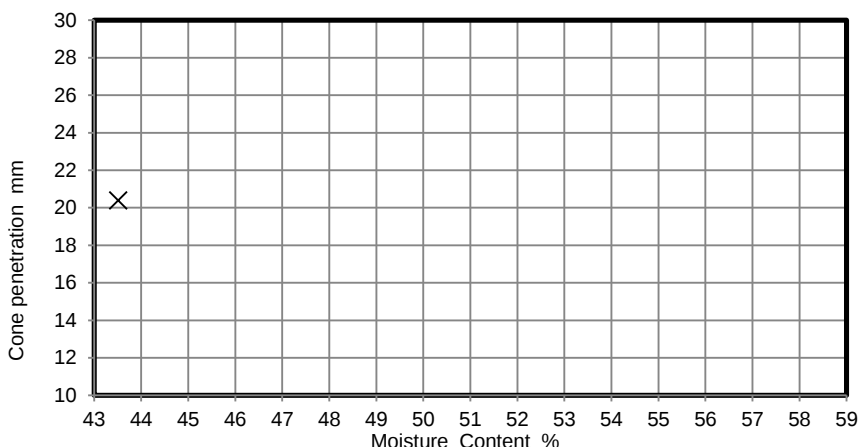
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 05/12/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

90

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

20

%

PLASTICITY INDEX

23

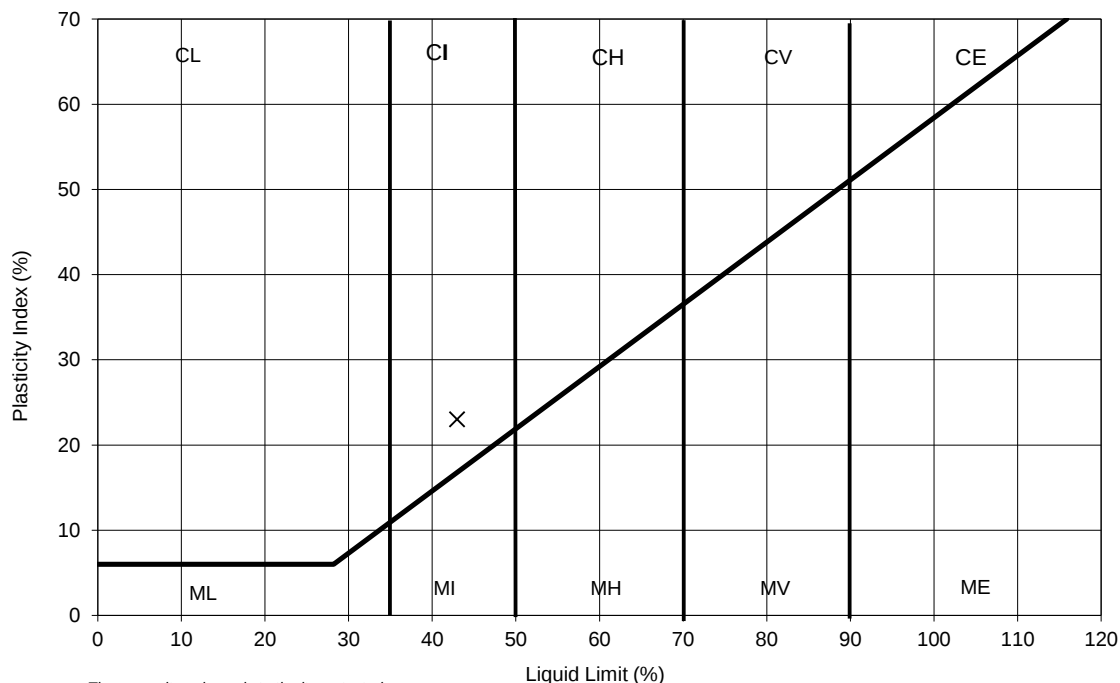
%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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

TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

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

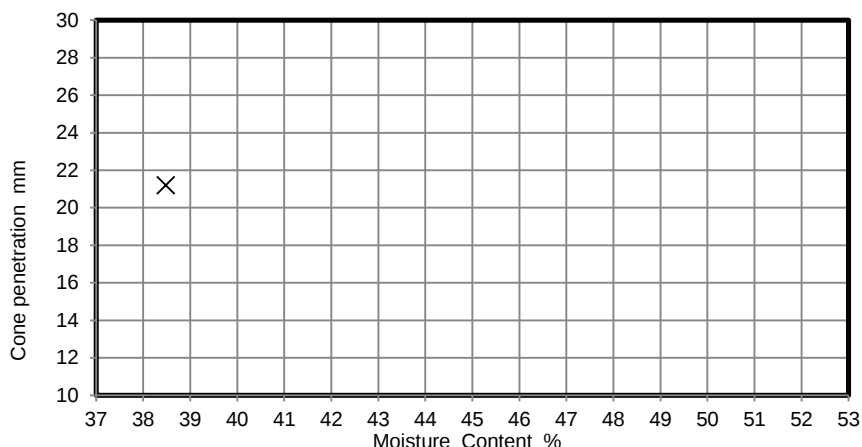
MSF-5 R2





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP05
Site Name	Shoreham Road, Small Dole			Sample No.	3
Project No.	GE22017	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023



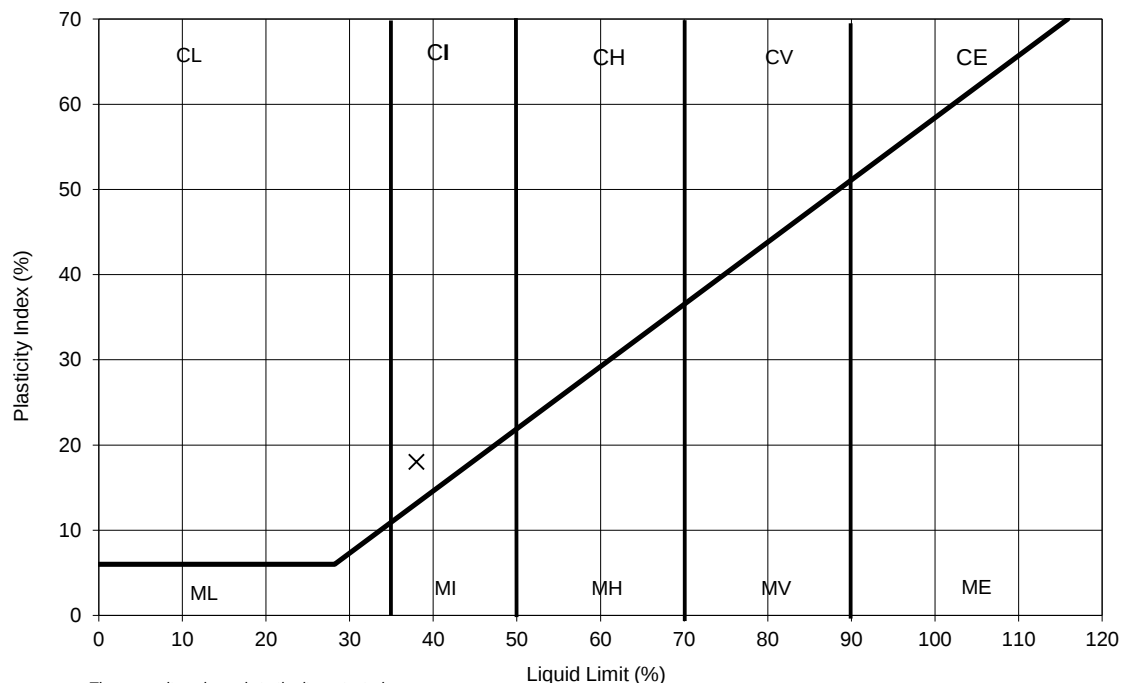
NATURAL MOISTURE CONTENT	24	%
% PASSING 425µm SIEVE	61	%
LIQUID LIMIT	38	%
PLASTIC LIMIT	20	%
PLASTICITY INDEX	18	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. TP06

Site Name Shoreham Road, Small Dole

Sample No. 2

Project No. GE22017

Client

GESL

Depth Top m 1.00

Soil Description

Orangish brown and occasional light grey slightly gravelly sandy silty CLAY with traces of roots (gravel is fmc weakly cemented sandstone fragments)

Depth Base m -

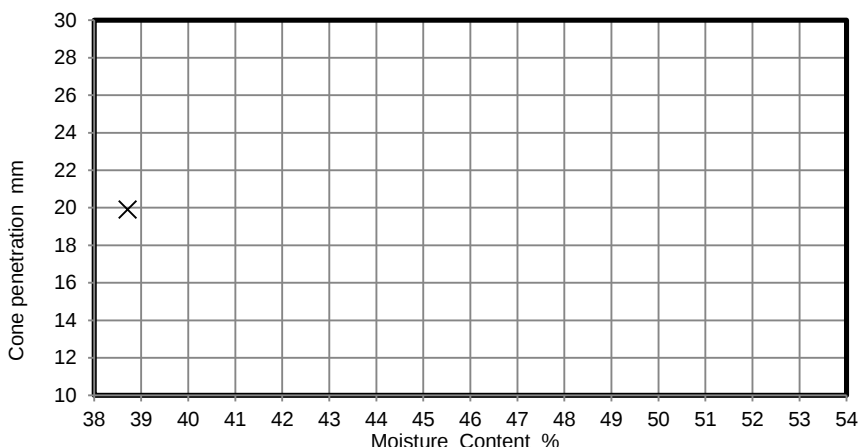
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 30/11/2023



NATURAL MOISTURE CONTENT

25

%

% PASSING 425µm SIEVE

84

%

LIQUID LIMIT

39

%

PLASTIC LIMIT

20

%

PLASTICITY INDEX

19

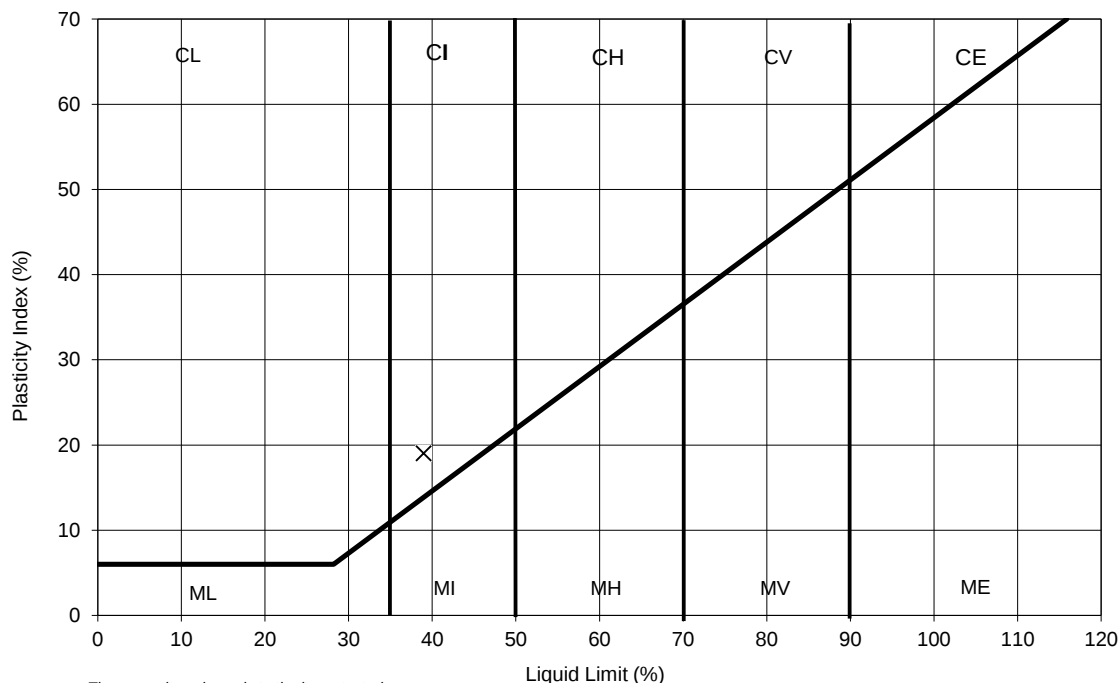
%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

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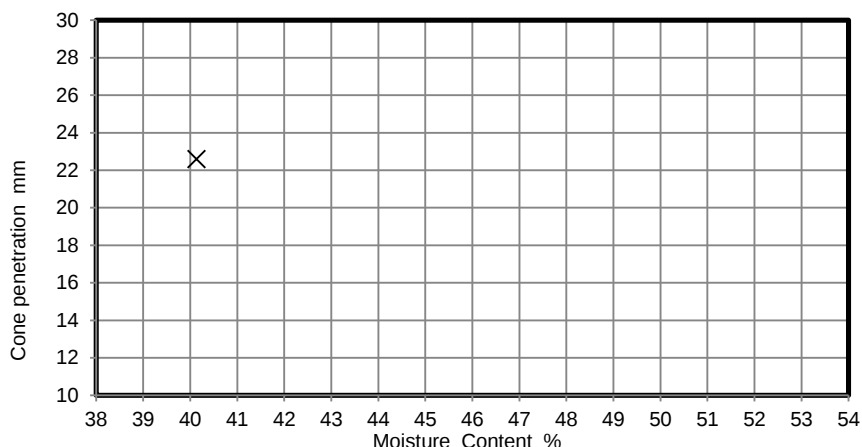
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	TP06
Site Name	Shoreham Road, Small Dole			Sample No.	4
Project No.	GE22017	Client	GESL	Depth Top m	2.00
Soil Description	Orangish brown and light greyish brown slightly gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	30/11/2023



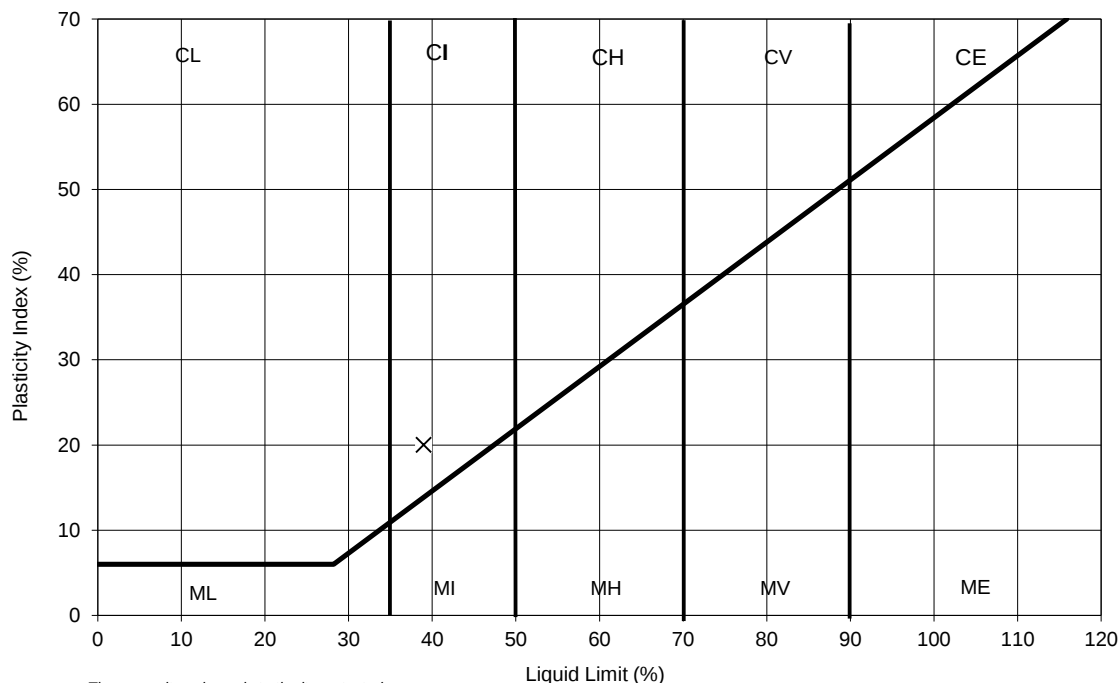
NATURAL MOISTURE CONTENT	24	%
% PASSING 425µm SIEVE	80	%
LIQUID LIMIT	39	%
PLASTIC LIMIT	19	%
PLASTICITY INDEX	20	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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Checked and Approved

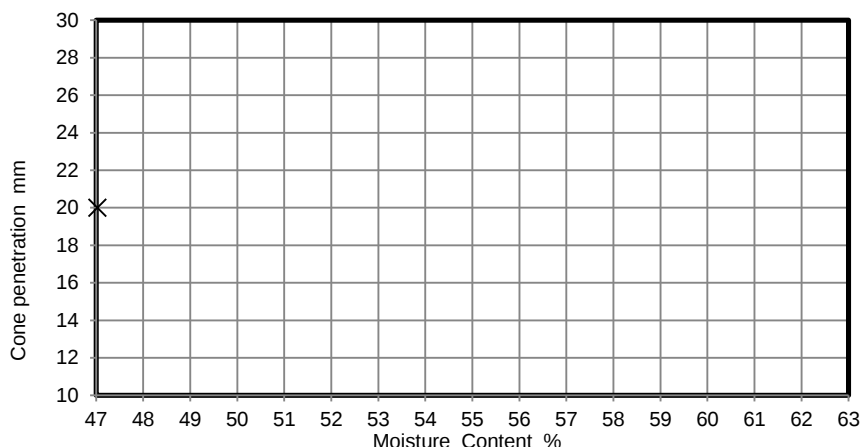
Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	34417		
	Borehole/Pit No.		
Site Name	Shoreham Road, Small Dole		
Project No.	GE22017	Client	GESL
Soil Description	Orangish brown gravelly sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)		



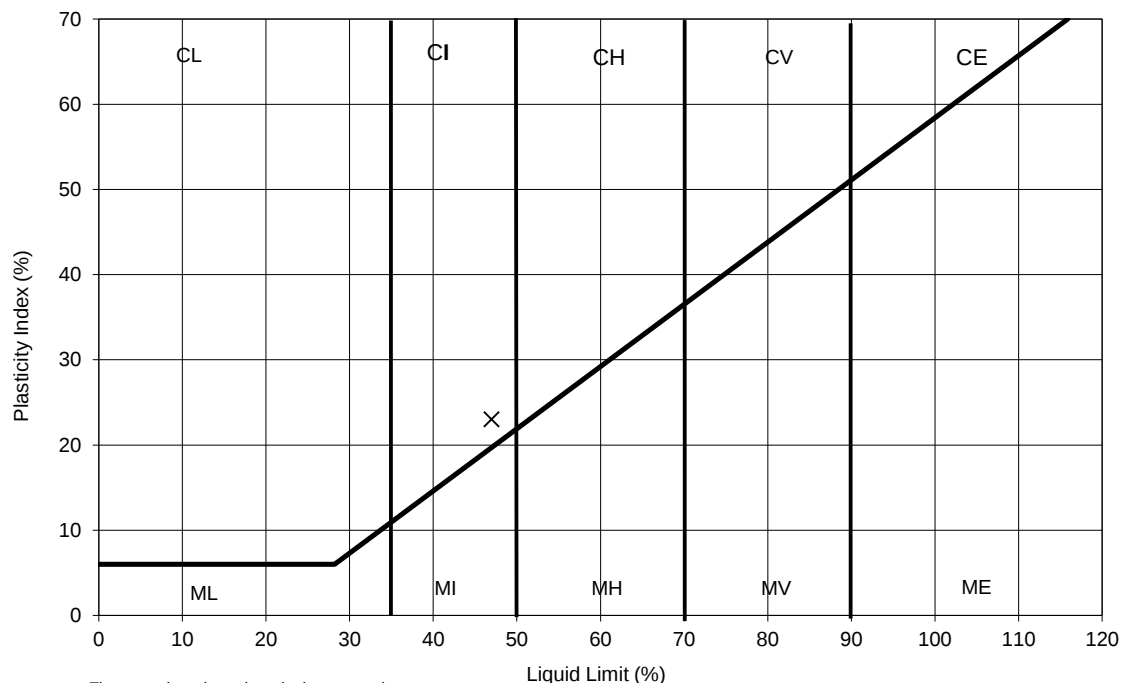
NATURAL MOISTURE CONTENT	27	%
% PASSING 425µm SIEVE	53	%
LIQUID LIMIT	47	%
PLASTIC LIMIT	24	%
PLASTICITY INDEX	23	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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Date: 08/12/2023

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MSF-5 R2



2519



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. WS01

Site Name Shoreham Road, Small Dole

Sample No. 1

Project No. GE22017

Client

GESL

Depth Top m 0.50

Soil Description

Orangish brown, light grey and brown slightly gravelly sandy silty CLAY with traces of rootlets and decayed roots (gravel is fm weakly cemented sandstone fragments)

Depth Base m -

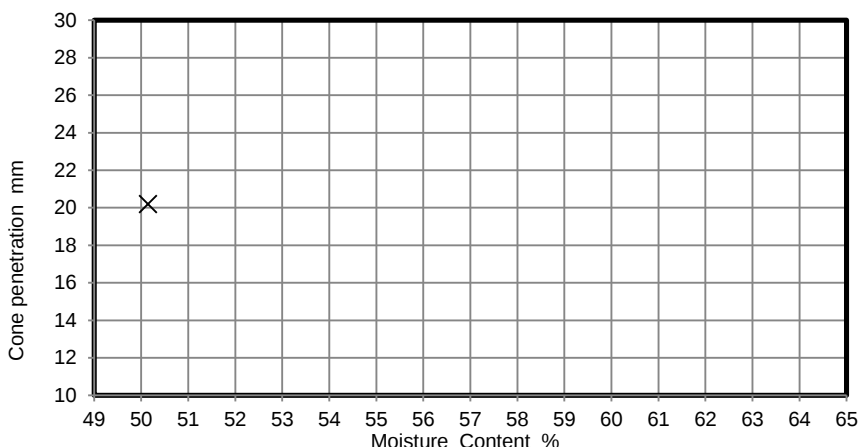
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 30/11/2023



NATURAL MOISTURE CONTENT

27

%

% PASSING 425µm SIEVE

94

%

LIQUID LIMIT

50

%

PLASTIC LIMIT

23

%

PLASTICITY INDEX

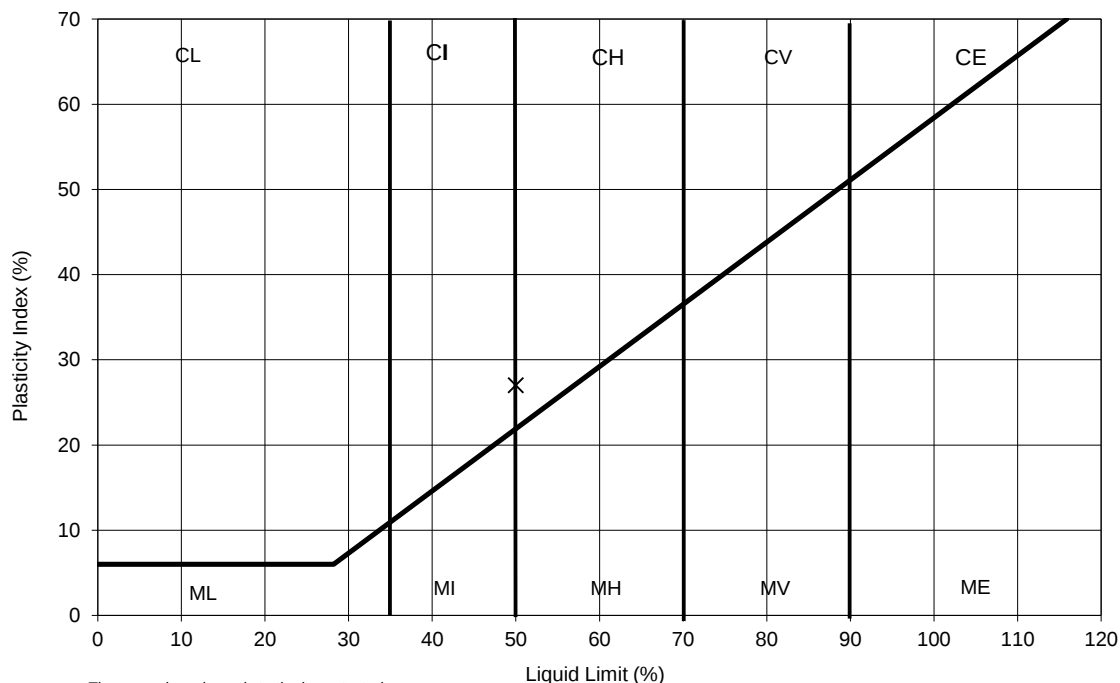
27

%

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. WS02

Site Name Shoreham Road, Small Dole

Sample No. 1

Project No. GE22017

Client

GESL

Depth Top m 0.50

Soil Description

Orangish brown sandy silty CLAY with rare fm weakly cemented sandstone fragments

Depth Base m -

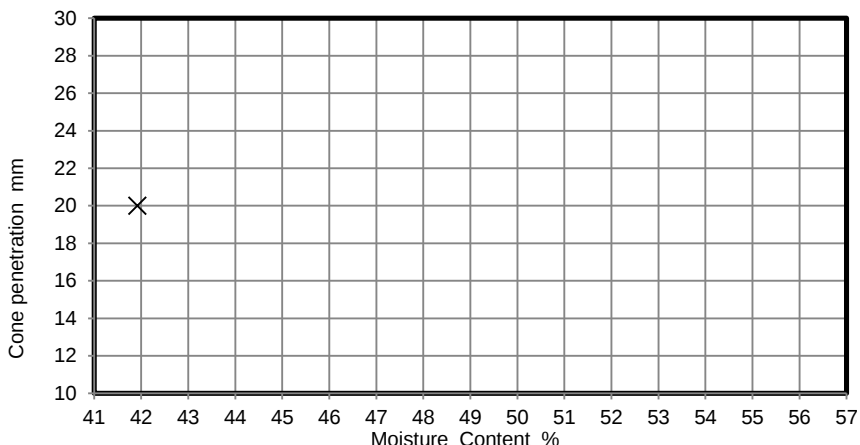
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 29/11/2023



NATURAL MOISTURE CONTENT

27

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

19

%

PLASTICITY INDEX

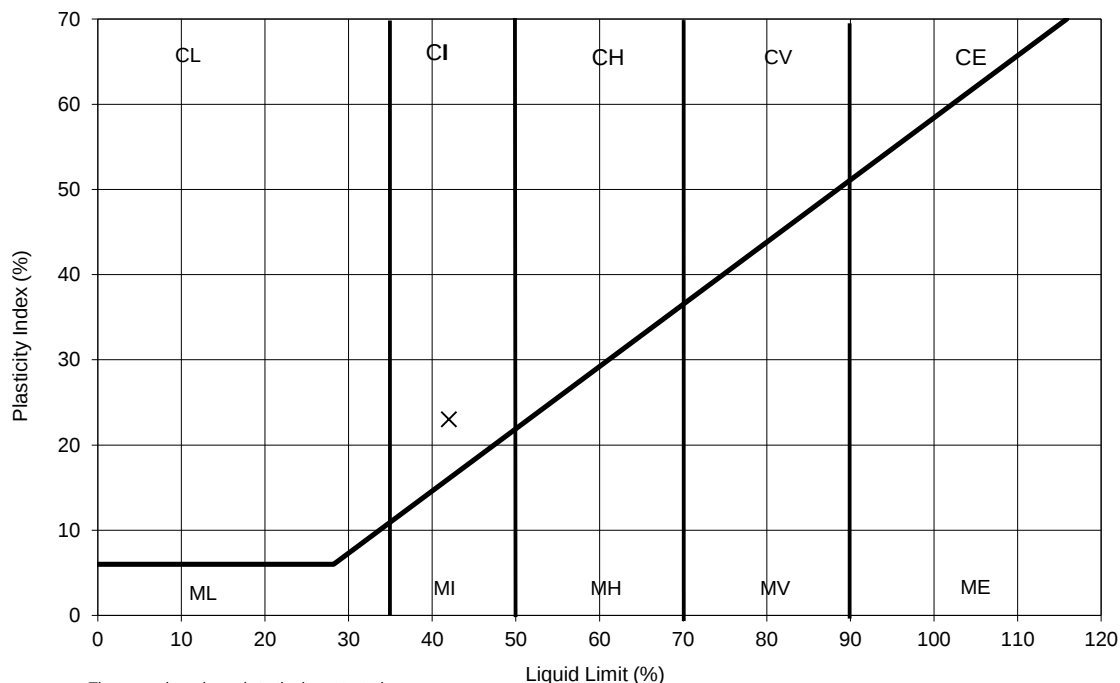
23

%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. WS02

Site Name Shoreham Road, Small Dole

Sample No. 4

Project No. GE22017

Client

GESL

Depth Top m 2.00

Soil Description

Orangish brown and occasional grey slightly gravelly very sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)

Depth Base m -

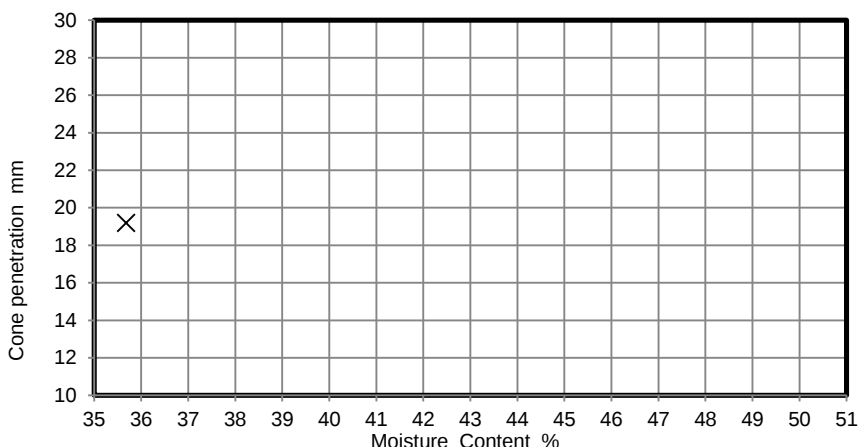
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 29/11/2023



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

80

%

LIQUID LIMIT

36

%

PLASTIC LIMIT

21

%

PLASTICITY INDEX

15

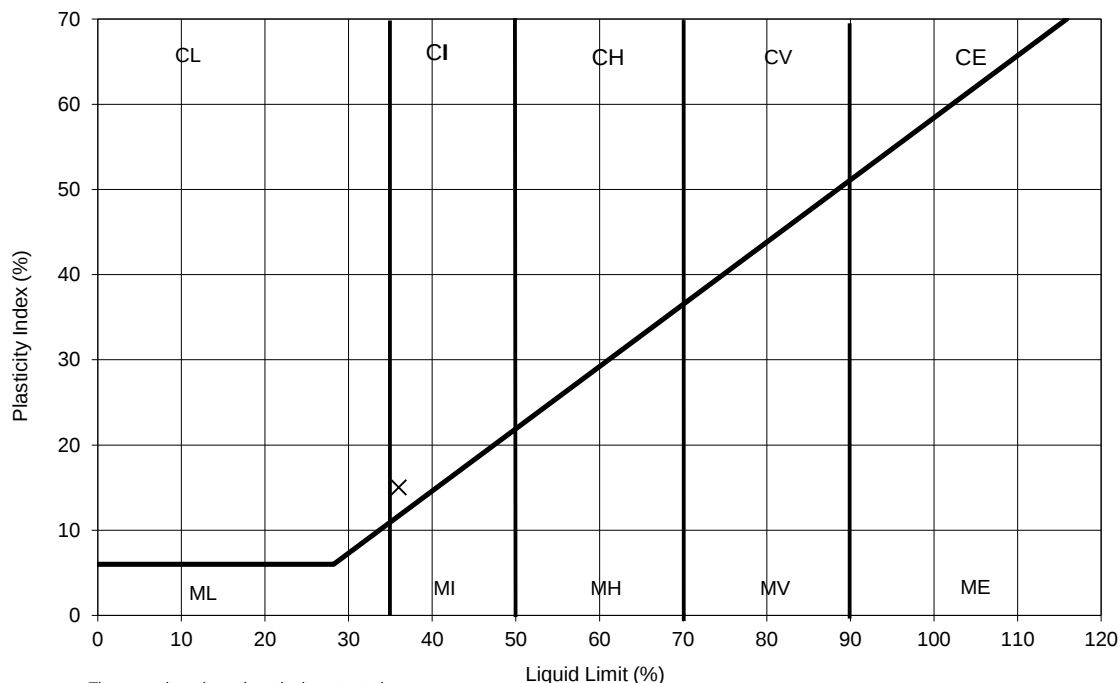
%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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Checked and Approved

Initials: J.P

Date: 08/12/2023

2519

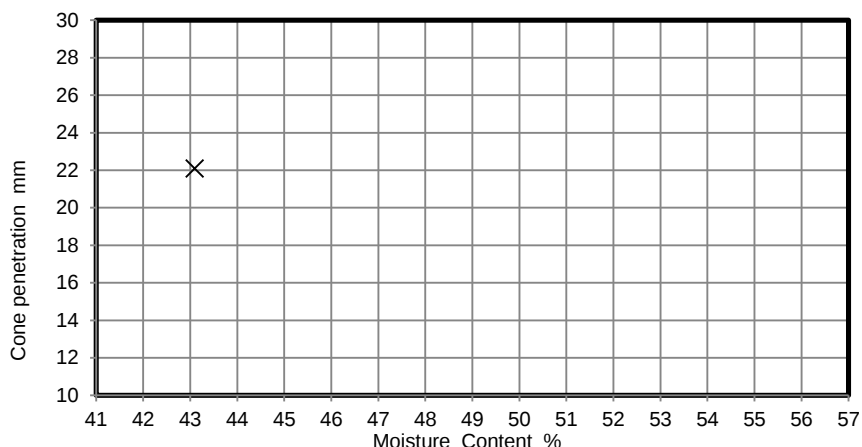
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS03
Site Name	Shoreham Road, Small Dole			Sample No.	1
Project No.	GE22017	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown, brown and light grey slightly gravelly sandy silty CLAY with dark grey carbonaceous fragments (gravel is fm weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023

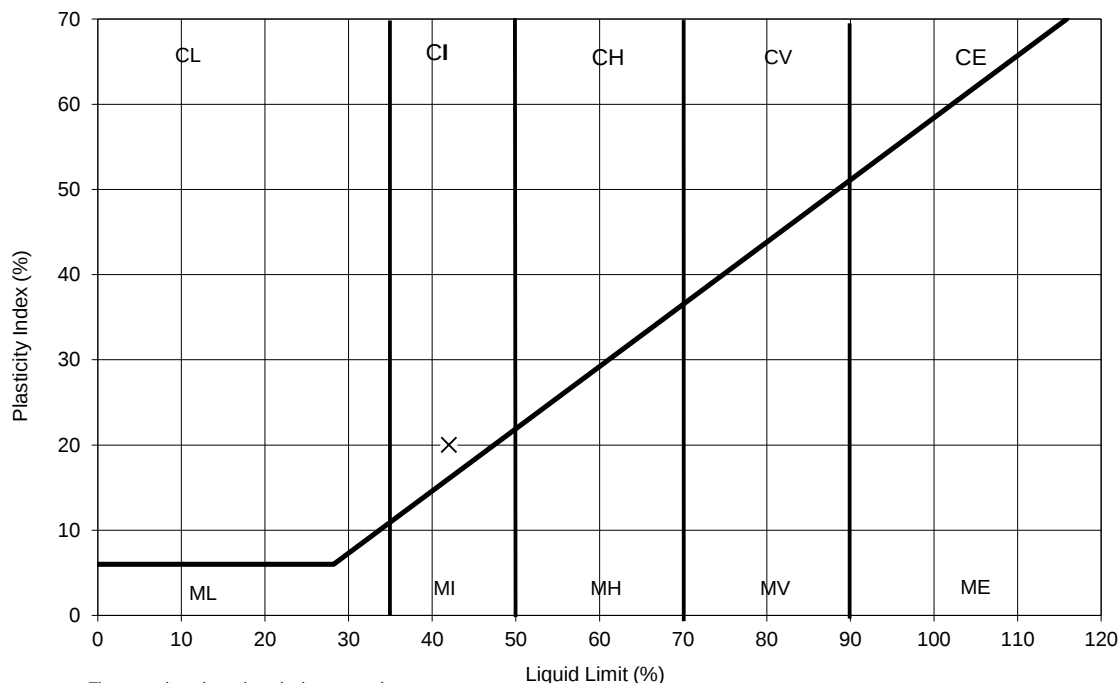


NATURAL MOISTURE CONTENT	26	%
% PASSING 425µm SIEVE	84	%
LIQUID LIMIT	42	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	20	%

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

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

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

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

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

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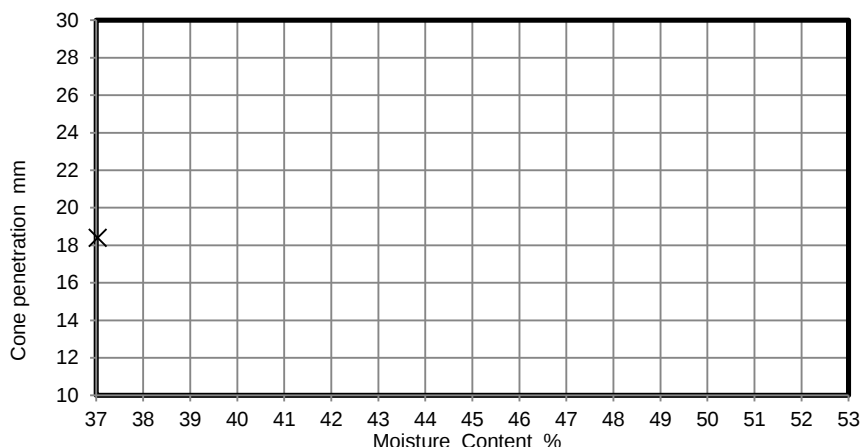
Initials: J.P

Date: 08/12/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS03
Site Name	Shoreham Road, Small Dole			Sample No.	2
Project No.	GE22017	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown and greyish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023

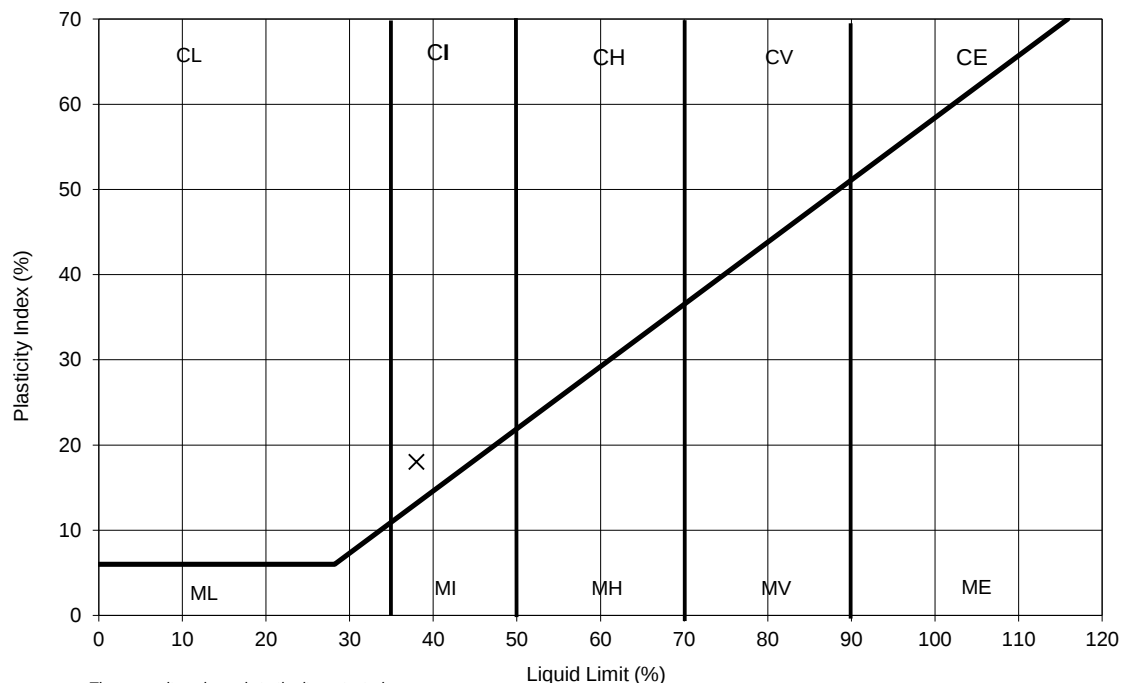


NATURAL MOISTURE CONTENT	22	%
% PASSING 425µm SIEVE	86	%
LIQUID LIMIT	38	%
PLASTIC LIMIT	20	%
PLASTICITY INDEX	18	%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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Initials: J.P

Date: 08/12/2023

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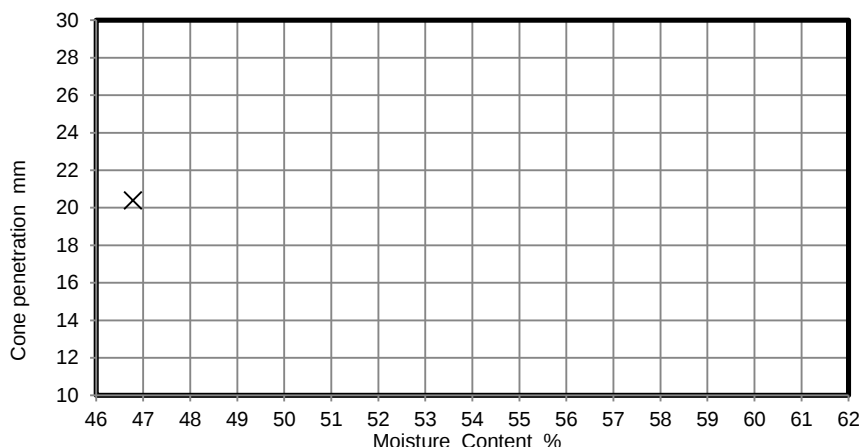
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS04
Site Name	Shoreham Road, Small Dole			Sample No.	3
Project No.	GE22017	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023



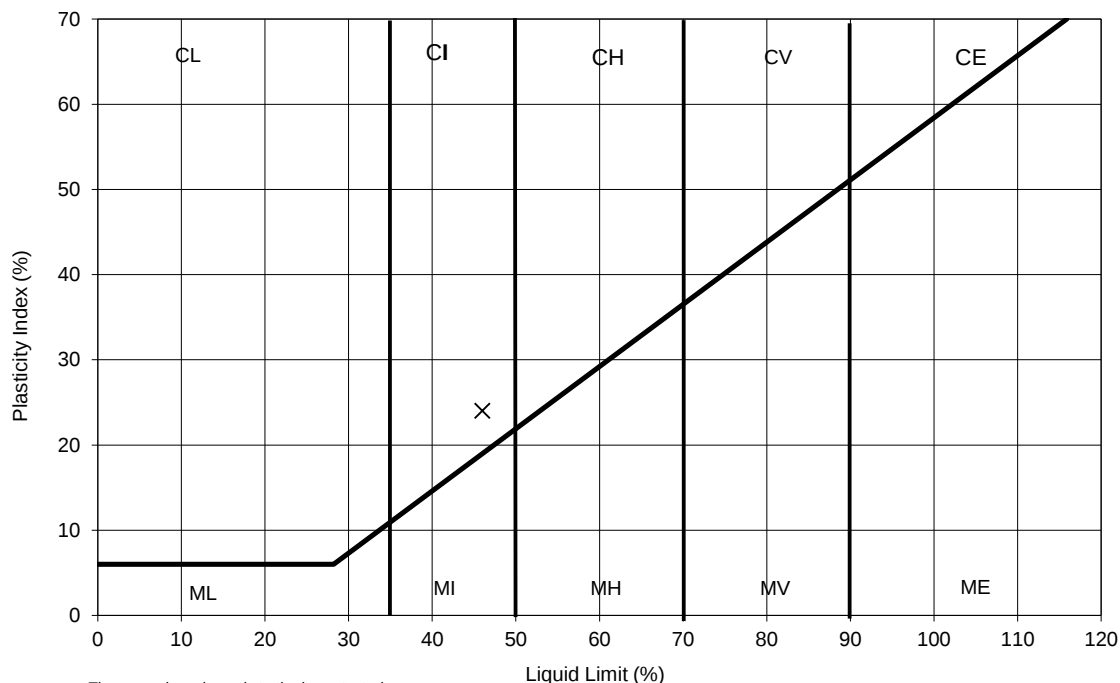
NATURAL MOISTURE CONTENT	30	%
% PASSING 425µm SIEVE	77	%
LIQUID LIMIT	46	%
PLASTIC LIMIT	22	%
PLASTICITY INDEX	24	%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. WS04

Site Name Shoreham Road, Small Dole

Sample No. 6

Project No. GE22017

Client

GESL

Depth Top m 3.00

Soil Description

Greyish brown gravelly very sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)

Depth Base m -

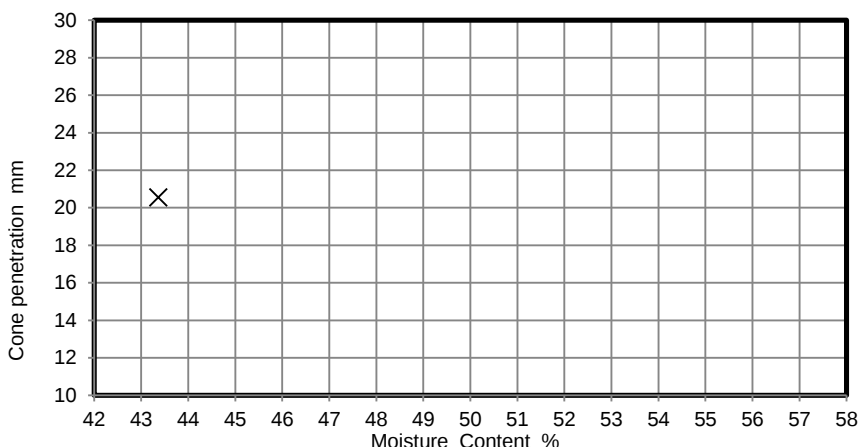
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 29/11/2023



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

62

%

LIQUID LIMIT

43

%

PLASTIC LIMIT

22

%

PLASTICITY INDEX

21

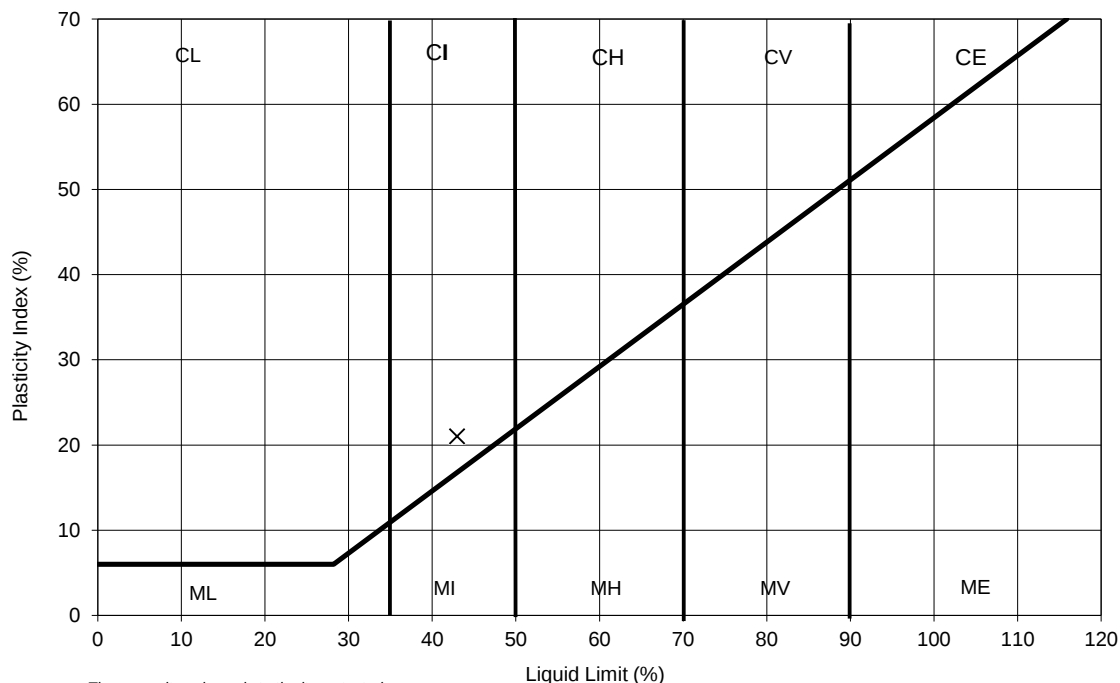
%

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



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TEST METHOD

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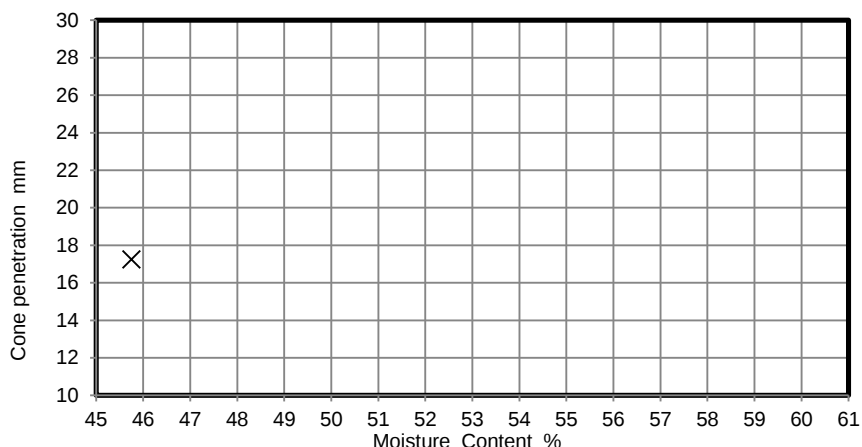
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS05
Site Name	Shoreham Road, Small Dole			Sample No.	1
Project No.	GE22017	Client	GESL	Depth Top m	0.50
Soil Description	Orangish brown, brown and occasional light grey slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023

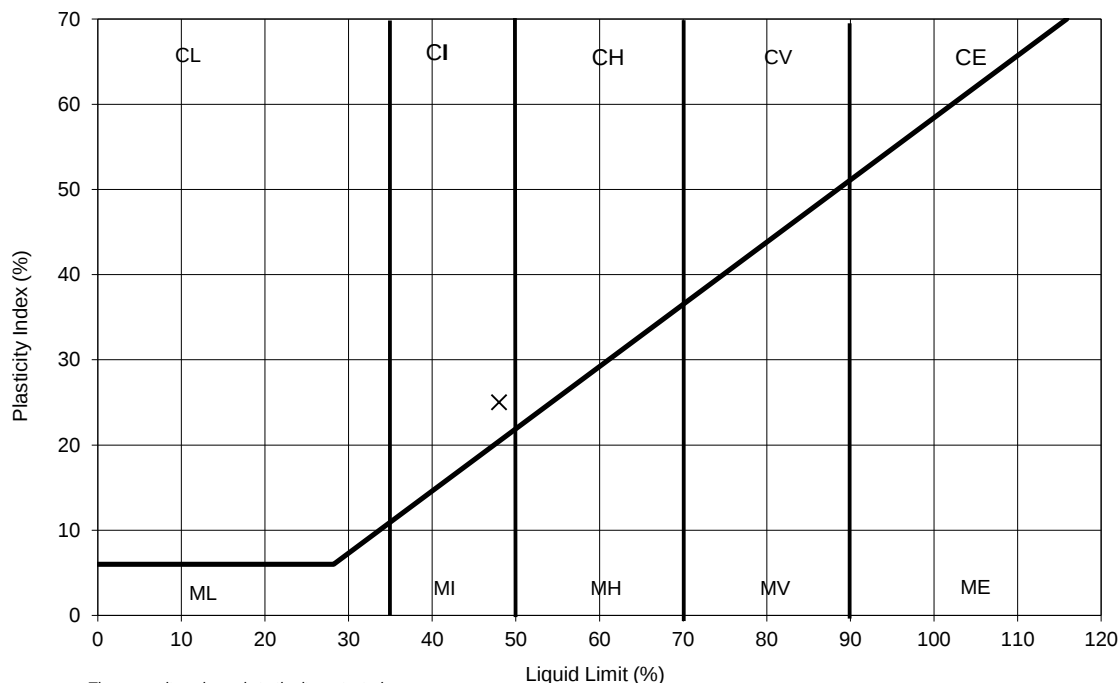


NATURAL MOISTURE CONTENT	26	%
% PASSING 425µm SIEVE	82	%
LIQUID LIMIT	48	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	25	%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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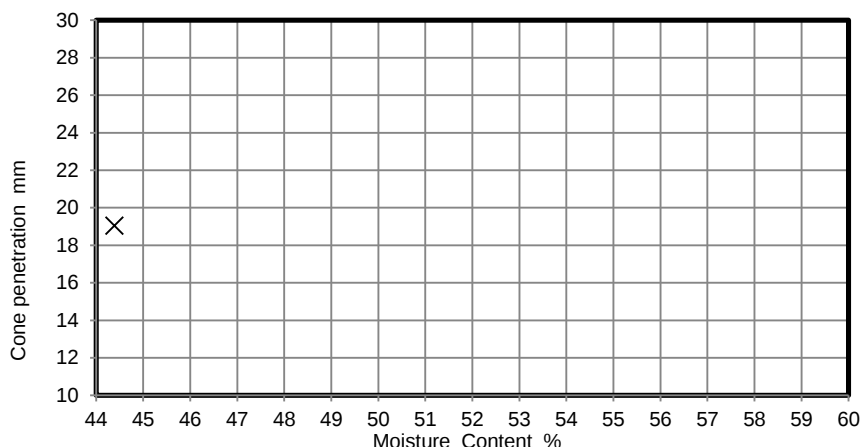
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS05
Site Name	Shoreham Road, Small Dole			Sample No.	4
Project No.	GE22017	Client	GESL	Depth Top m	2.00
Soil Description	Greyish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023

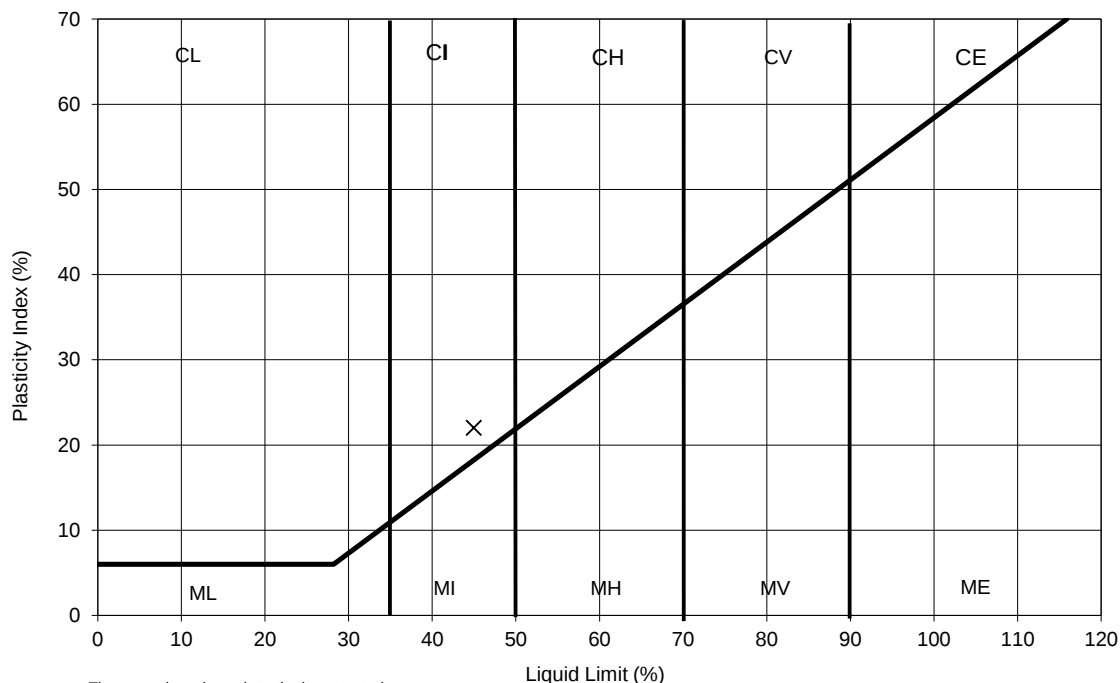


NATURAL MOISTURE CONTENT	21	%
% PASSING 425µm SIEVE	79	%
LIQUID LIMIT	45	%
PLASTIC LIMIT	23	%
PLASTICITY INDEX	22	%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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

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

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

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 34417

Borehole/Pit No. WS06

Site Name Shoreham Road, Small Dole

Sample No. 2

Project No. GE22017

Client

GESL

Depth Top m 1.00

Soil Description Brown scattered dark grey sandy silty CLAY with rare fine chalk gravel

Depth Base m -

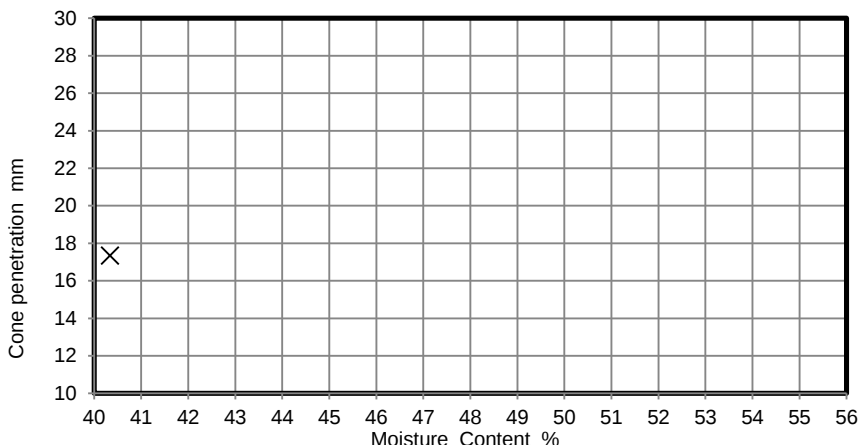
Sample Type D

Samples received 16/11/2023

Schedules received 13/11/2023

Project Started 17/11/2023

Date Tested 29/11/2023



NATURAL MOISTURE CONTENT

22

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

42

%

PLASTIC LIMIT

17

%

PLASTICITY INDEX

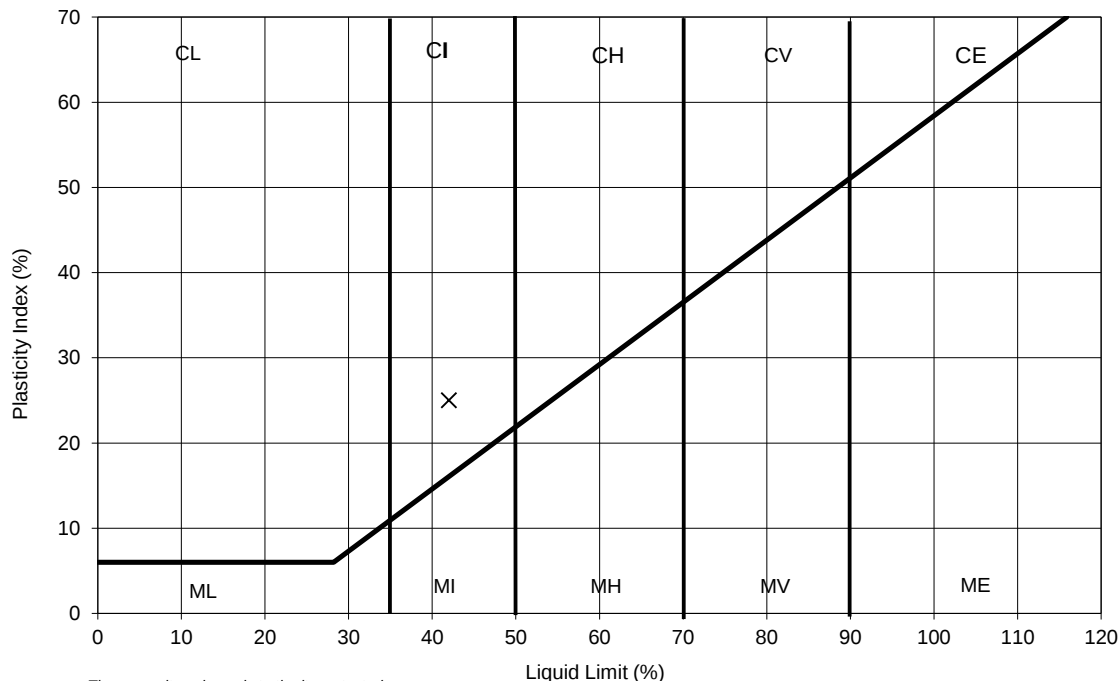
25

%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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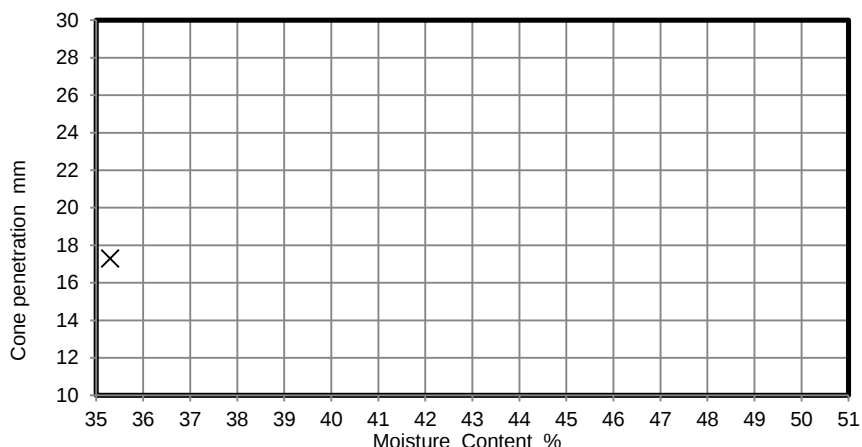
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34417
				Borehole/Pit No.	WS06
Site Name	Shoreham Road, Small Dole			Sample No.	4
Project No.	GE22017	Client	GESL	Depth Top m	2.00
Soil Description	Orangish brown slightly mottled light grey sandy silty CLAY with rare fm sub-angular gravel and rare fine mudstone fragments			Depth Base m	-
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
				Project Started	17/11/2023
				Date Tested	29/11/2023

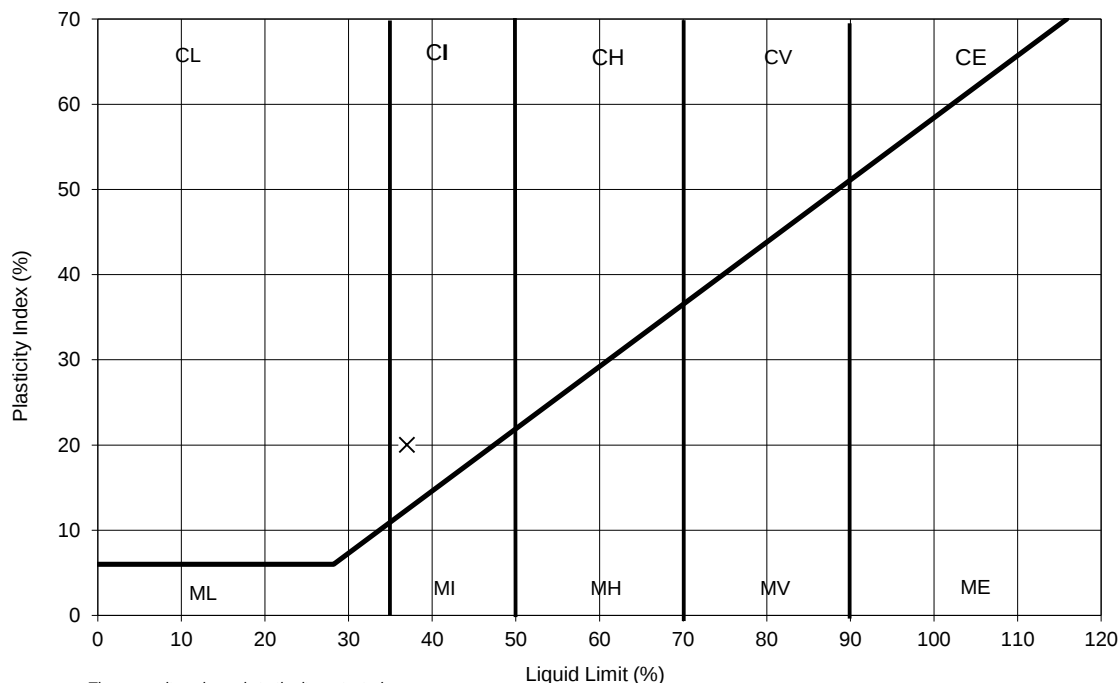


NATURAL MOISTURE CONTENT	18	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	37	%
PLASTIC LIMIT	17	%
PLASTICITY INDEX	20	%

Remarks

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

PLASTICITY INDEX



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TEST METHOD

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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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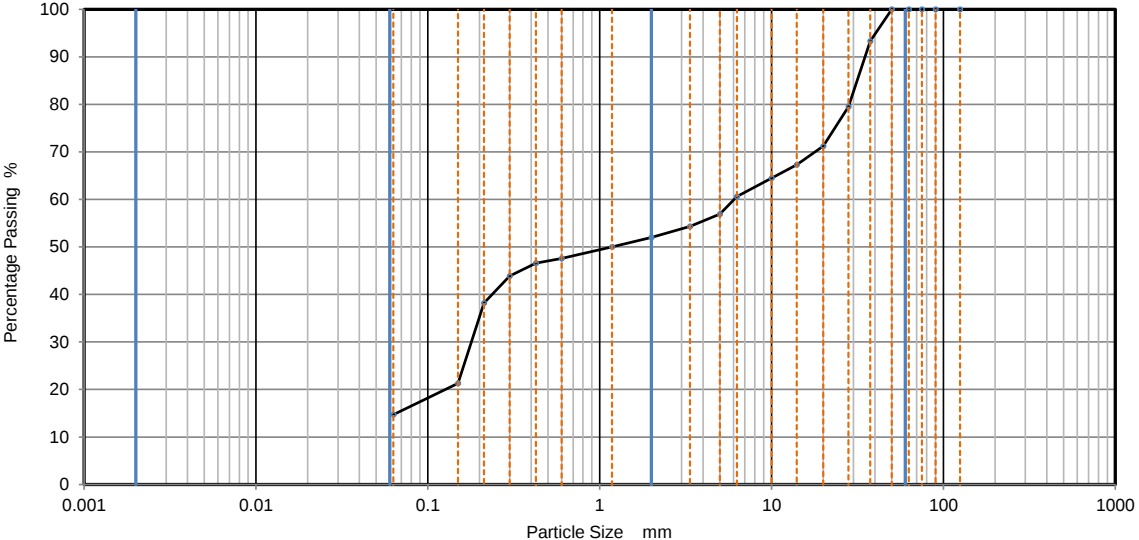
Date: 08/12/2023

					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name			Programme						
34417		Shoreham Road, Small Dole			Samples received		16/11/2023				
Project No.		Client			Schedule received		13/11/2023				
GE22017		GESL			Project started		17/11/2023				
					Testing Started		29/11/2023				
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
WS01	1	0.50	-	D	Orangish brown, light grey and brown slightly gravelly sandy silty CLAY with traces of rootlets and decayed roots (gravel is fm weakly cemented sandstone fragments)	27	94	50	23	27	
WS02	1	0.50	-	D	Orangish brown sandy silty CLAY with rare fm weakly cemented sandstone fragments	27	99	42	19	23	
WS02	4	2.00	-	D	Orangish brown and occasional grey slightly gravelly very sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	22	80	36	21	15	Sample washed to obtain test fraction
WS03	1	1.00	-	D	Orangish brown, brown and light grey slightly gravelly sandy silty CLAY with dark grey carbonaceous fragments (gravel is fm weakly cemented sandstone fragments)	26	84	42	22	20	
WS03	2	1.50	-	D	Orangish brown and greyish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)	22	86	38	20	18	
WS04	3	1.50	-	D	Orangish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)	30	77	46	22	24	Sample washed to obtain test fraction
WS04	6	3.00	-	D	Greyish brown gravelly very sandy silty CLAY (gravel is fmc weakly cemented sandstone fragments)	22	62	43	22	21	Sample washed to obtain test fraction
WS05	1	0.50	-	D	Orangish brown, brown and occasional light grey slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)	26	82	48	23	25	
WS05	4	2.00	-	D	Greyish brown slightly gravelly sandy silty CLAY (gravel is fm weakly cemented sandstone fragments)	21	79	45	23	22	
WS06	2	1.00	-	D	Brown scattered dark grey sandy silty CLAY with rare fine chalk gravel	22	99	42	17	25	
WS06	4	2.00	-	D	Orangish brown slightly mottled light grey sandy silty CLAY with rare fm sub-angular gravel and rare fine mudstone fragments	18	99	37	17	20	

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	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: 08/12/2023
	NOTE: The report shall not be reproduced except in full without authority of the laboratory		
	2519		Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)
	MSF-5-R1(b)		

	PARTICLE SIZE DISTRIBUTION			Job Ref	34417
				Borehole/Pit No.	TP04
Site Name	Shoreham Road, Small Dole			Sample No.	3
Project No.	GE22017	Client	GESL	Depth Top	1.50 m
Soil Description	Orangish brown clayey very sandy GRAVEL (gravel is fmc and angular to sub-angular)			Depth Base	- m
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/11/2023
These results only apply to the items tested				Date tested	01/12/2023

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	93		
28	80		
20	71		
14	67		
10	65		
6.3	61		
5	57		
3.35	54		
2	52		
1.18	50		
0.6	48		
0.425	47		
0.3	44		
0.212	38		
0.15	21		
0.063	15		

Sample Proportions		% dry mass
Very coarse		0.00
Gravel		47.98
Sand		37.30
Fines <0.063mm		14.73

Grading Analysis		
D100	mm	
D60	mm	6.05
D30	mm	0.179
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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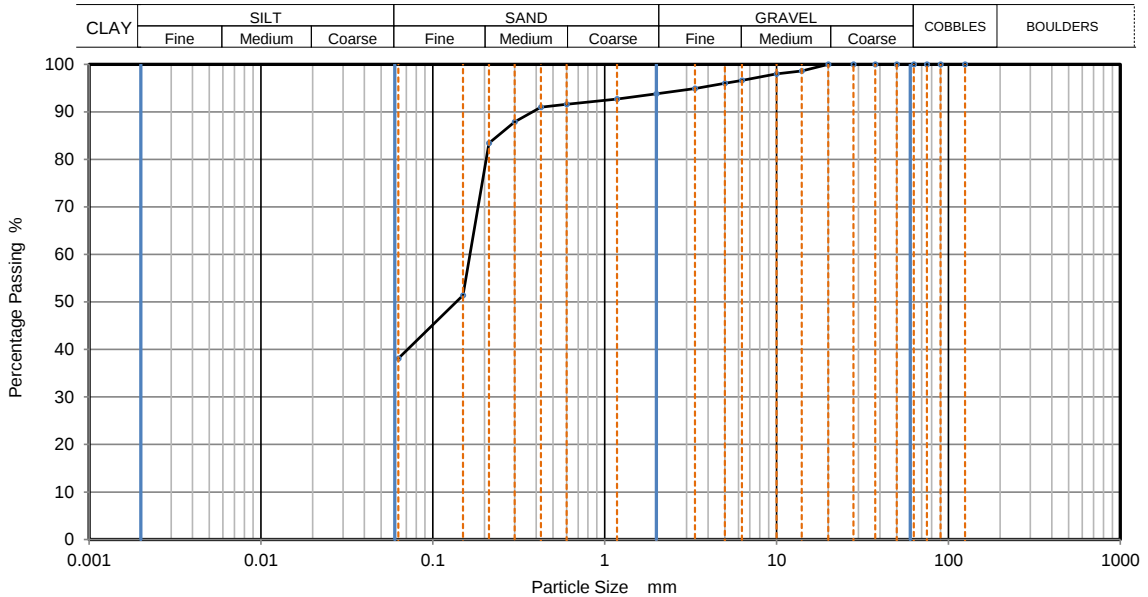
	K4 Soils Laboratory Unit 8, Olds Close, Watford, Herts, WD18 9RU Email: james@k4soils.com Tel: 01923 711288		Checked and Approved Initials: J.P Date: 08/12/2023
	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R3
	2519		



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	34417	
				Borehole/Pit No.	TP05	
Site Name	Shoreham Road, Small Dole			Sample No.	5	
Project No.	GE22017	Client	GESL	Depth Top	2.50	m
Soil Description	Brown slightly gravelly sandy silty CLAY (gravel is fm and sub-angular)			Depth Base	-	m
				Sample Type	D	
				Samples received	16/11/2023	
				Schedules received	13/11/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/11/2023	
These results only apply to the items tested				Date tested	01/12/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	98		
6.3	97		
5	96		
3.35	95		
2	94		
1.18	93		
0.6	92		
0.425	91		
0.3	88		
0.212	83		
0.15	51		
0.063	38		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	6.20
Sand	55.73
Fines <0.063mm	38.07

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 08/12/2023

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

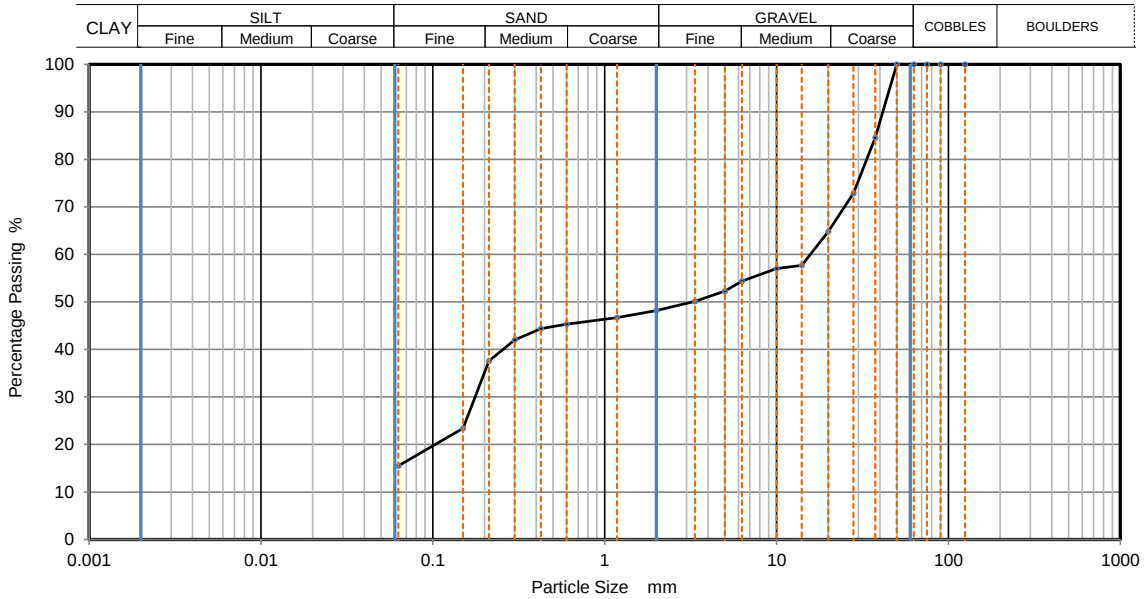
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	34417
				Borehole/Pit No.	TP07
Site Name	Shoreham Road, Small Dole			Sample No.	1
Project No.	GE22017	Client	GESL	Depth Top	0.50 m
Soil Description	Brown silty clayey very sandy GRAVEL (gravel is fmc and sub-rounded)			Depth Base	- m
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/11/2023
These results only apply to the items tested				Date tested	01/12/2023

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	85		
28	73		
20	65		
14	58		
10	57		
6.3	54		
5	52		
3.35	50		
2	48		
1.18	47		
0.6	45		
0.425	44		
0.3	42		
0.212	38		
0.15	23		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	51.77
Sand	32.77
Fines <0.063mm	15.46

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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Checked and Approved

Initials: J.P

Date: 08/12/2023

2519

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

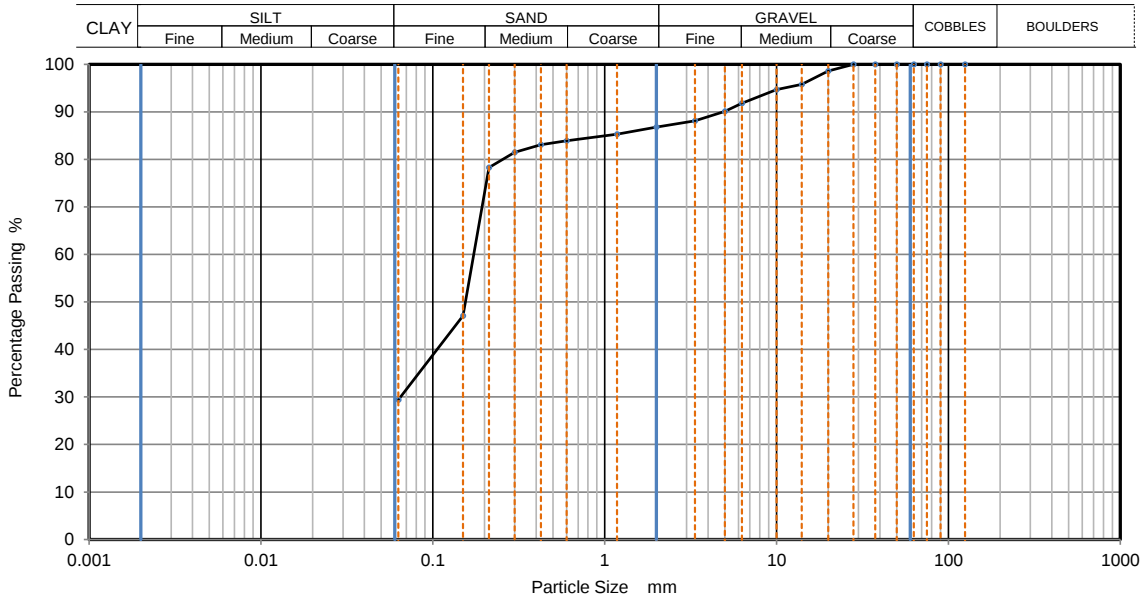
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	34417
				Borehole/Pit No.	WS01
Site Name	Shoreham Road, Small Dole			Sample No.	4
Project No.	GE22017	Client	GESL	Depth Top	2.00 m
Soil Description	Brown gravelly silty clayey SAND (gravel is fmc and sub-angular)			Depth Base	- m
				Sample Type	D
				Samples received	16/11/2023
				Schedules received	13/11/2023
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	17/11/2023
These results only apply to the items tested				Date tested	01/12/2023

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	96		
10	95		
6.3	92		
5	90		
3.35	88		
2	87		
1.18	85		
0.6	84		
0.425	83		
0.3	82		
0.212	78		
0.15	47		
0.063	29		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	13.20
Sand	57.45
Fines <0.063mm	29.35

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

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

MSF-5-R3



APPENDIX E

Geochemical Laboratory Results & HazWate Classification Report





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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-51047

Issue: 1

Date of Issue: 22/11/2023

Contact: Jason Kanellis

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

Quotation No: Q22-03510

Order No: 7003

Customer Reference: GE22017

Date Received: 10/11/2023

Date Approved: 22/11/2023

Details: Shoreham Road, Small Dole

Approved by:

Ben Rees, Customer Services Assistant

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 23-51047, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
345095	TP01 0.40	09/11/2023	13/11/2023	Sandy silty loam	
345096	TP01 0.90	09/11/2023	13/11/2023	Sandy silty loam	
345097	TP02 0.30	09/11/2023	13/11/2023	Silty loam	
345098	TP02 0.90	09/11/2023	13/11/2023		
345099	TP02 2.00	09/11/2023	13/11/2023		
345100	TP03 0.60	09/11/2023	13/11/2023	Silty loam	
345101	TP03 1.00	09/11/2023	13/11/2023	Silty loam	
345102	TP03 2.00	09/11/2023	13/11/2023		
345103	TP04 0.50	09/11/2023	13/11/2023	Sandy silty loam	
345104	TP04 1.30	09/11/2023	13/11/2023	Sandy loam	
345105	TP05 0.20	09/11/2023	13/11/2023		
345106	TP05 0.50	09/11/2023	13/11/2023	Silty loam	
345107	TP05 1.80	09/11/2023	13/11/2023		
345108	TP06 0.30	09/11/2023	13/11/2023		
345109	TP06 0.80	09/11/2023	13/11/2023	Silty loam	
345110	TP07 0.20	09/11/2023	13/11/2023	Silty loam	
345111	TP07 0.80	09/11/2023	13/11/2023	Loamy sand	
345112	WS01 0.20	09/11/2023	13/11/2023	Silty loam	
345113	WS02 0.20	09/11/2023	13/11/2023	Silty loam	
345114	WS03 0.40	09/11/2023	13/11/2023	Silty loam	
345115	WS04 0.20	09/11/2023	13/11/2023	Silty loam	
345116	WS05 0.20	09/11/2023	13/11/2023	Sandy silty loam	
345117	WS06 0.30	09/11/2023	13/11/2023	Silty loam	

Results Summary

Report No.: 23-51047, issue number 1

ELAB Reference	345095	345096	345097	345100	345101	345103	345104	345106	345109	345110	345111	345112	345113	345114	345115	345116	345117
Customer Reference																	
Sample ID																	
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP01	TP01	TP02	TP03	TP03	TP04	TP04	TP05	TP06	TP07	TP07	WS01	WS02	WS03	WS04	WS05	WS06
Sample Depth (m)	0.40	0.90	0.30	0.60	1.00	0.50	1.30	0.50	0.80	0.20	0.80	0.20	0.20	0.40	0.20	0.20	0.30
Sampling Date	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Determinand	Codes	Units	LOD														
Soil sample preparation parameters																	
Moisture Content	N	%	0.1	17.4	17.2	27.8	17.9	17.4	15.3	16.3	14.2	14.6	15.9	13.9	16.9	13.9	15.5
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Metals																	
Antimony	N	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	2.1	n/t	0.7
Arsenic	M	mg/kg	0.5	10.9	n/t	10.0	7.4	n/t	9.5	n/t	n/t	n/t	11.2	n/t	8.7	8.6	9.7
Barium	U	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	97.3	n/t	61.8
Beryllium	M	mg/kg	0.5	0.7	n/t	0.8	0.6	n/t	< 0.5	n/t	n/t	n/t	0.9	n/t	0.9	0.8	0.6
Cadmium	M	mg/kg	0.2	< 0.2	n/t	< 0.2	< 0.2	n/t	< 0.2	n/t	n/t	n/t	0.6	n/t	0.3	0.3	< 0.2
Chromium	M	mg/kg	1	17.0	n/t	16.2	11.7	n/t	8.9	n/t	n/t	n/t	15.4	n/t	14.4	12.6	10.7
Copper	M	mg/kg	4	19.9	n/t	65.0	22.4	n/t	12.2	n/t	n/t	n/t	22.5	n/t	21.6	82.0	12.7
Lead	M	mg/kg	1	21.5	n/t	106	56.8	n/t	11.1	n/t	n/t	n/t	60.9	n/t	98.6	79.6	17.1
Mercury	M	mg/kg	0.1	0.3	n/t	1.6	0.2	n/t	< 0.1	n/t	n/t	n/t	1.7	n/t	0.7	1.5	0.1
Molybdenum	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	< 1.0
Nickel	M	mg/kg	1	15.1	n/t	14.6	12.2	n/t	15.9	n/t	n/t	n/t	16.0	n/t	14.4	11.8	13.3
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	n/t	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	26.8	n/t	23.4	17.6	n/t	13.0	n/t	n/t	n/t	19.6	n/t	22.8	18.1	19.5
Zinc	M	mg/kg	4.5	56.5	n/t	110	63.5	n/t	38.1	n/t	n/t	n/t	70.1	n/t	70.3	73.9	45.0
Anions																	
Water Soluble Chloride	M	mg/kg	40	53	n/t	46	73	n/t	< 40	n/t	n/t	n/t	< 40	n/t	n/t	< 40	47
Water Soluble Sulphate	M	g/l	0.02	0.04	0.04	0.03	0.03	< 0.02	< 0.02	< 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	n/t	n/t	< 20	n/t	n/t	< 20	< 20
Free Cyanide	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	< 1.0
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	< 0.8	n/t	< 0.8	n/t	n/t	n/t	< 0.8	n/t	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	n/t	< 2	< 2	n/t	< 2	n/t	n/t	n/t	< 2	n/t	n/t	< 2	< 2
Total Cyanide	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	n/t	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0
Total Sulphur	N	%	0.01	n/t	< 0.01	n/t	n/t	0.01	n/t	< 0.01	< 0.01	0.01	n/t	< 0.01	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	n/t	< 0.02	< 0.02	< 0.02
Water Soluble Boron	N	mg/kg	0.5	< 0.5	n/t	0.6	0.7	n/t	< 0.5	n/t	n/t	n/t	< 0.5	n/t	0.5	< 0.5	0.7
Miscellaneous																	
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 0.1	n/t	< 0.1
Loss on Ignition	M	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	3.84	n/t	3.63
pH	M	pH units	0.1	7.3	7.1	7.0	6.9	7.2	6.6	6.8	7.2	7.0	6.8	6.9	6.7	6.8	7.1
Total Organic Carbon	N	%	0.01	0.32	n/t	1.5	0.48	n/t	0.27	n/t	n/t	n/t	1.3	n/t	1.2	0.80	0.39
Organics																	
>C8-C10 BCB (EH_ID_Total)	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	n/t	< 1.0
Gas Range Organics (>C6-C10) (HS_ID_MS_Total)	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	0.71	n/t	0.71

Results Summary

Report No.: 23-51047, issue number 1

				345095	345096	345097	345100	345101	345103	345104	345106	345109	345110	345111	345112	345113	345114	345115	345116	345117
ELAB Reference																				
Customer Reference																				
Sample ID																				
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP01	TP01	TP02	TP03	TP03	TP04	TP04	TP05	TP06	TP07	TP07	WS01	WS02	WS03	WS04	WS05	WS06
Sample Depth (m)				0.40	0.90	0.30	0.60	1.00	0.50	1.30	0.50	0.80	0.20	0.80	0.20	0.20	0.40	0.20	0.20	0.30
Sampling Date				09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Determinand				Codes	Units	LOD														
Phenols																				
Phenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
1-Naphthol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1	n/t	< 1	n/t	n/t	n/t
Total Phenols	N	mg/kg	6	< 6	n/t	< 6	< 6	n/t	mg/kg	< 6	n/t	n/t	n/t	< 6	n/t	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons																				
Naphthalene	MS	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	MS	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	MS	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	US	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	MS	mg/kg	0.02	< 0.02	n/t	0.07	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.02	n/t	0.10	0.07	< 0.02	< 0.02	0.06	0.03
Anthracene	US	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	0.02	0.03	< 0.02	< 0.02	0.02	< 0.02
Fluoranthene	MS	mg/kg	0.02	< 0.02	n/t	0.19	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.07	n/t	0.44	0.28	< 0.02	0.05	0.10	0.09
Pyrene	MS	mg/kg	0.02	< 0.02	n/t	0.19	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.07	n/t	0.40	0.26	< 0.02	0.04	0.08	0.09
Benzo(a)anthracene	US	mg/kg	0.02	< 0.02	n/t	0.09	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.03	n/t	0.19	0.13	< 0.02	0.02	0.04	0.03
Chrysene	MS	mg/kg	0.02	< 0.03	n/t	0.15	< 0.03	n/t	< 0.03	n/t	n/t	n/t	0.04	n/t	0.25	0.15	< 0.03	0.04	0.05	0.05
Benzo(b)fluoranthene	MS	mg/kg	0.02	< 0.02	n/t	0.15	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.06	n/t	0.23	0.19	< 0.02	0.04	0.07	0.07
Benzo(k)fluoranthene	MS	mg/kg	0.03	< 0.03	n/t	0.06	< 0.03	n/t	< 0.03	n/t	n/t	n/t	0.03	n/t	0.09	0.08	< 0.03	< 0.03	< 0.03	0.04
Benzo(a)pyrene	US	mg/kg	0.02	< 0.02	n/t	0.13	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.05	n/t	0.22	0.17	< 0.02	0.04	0.06	0.06
Indeno(1,2,3-cd)pyrene	MS	mg/kg	0.02	< 0.02	n/t	0.09	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.03	n/t	0.12	0.12	< 0.02	< 0.02	0.04	0.04
Dibenzo(a,h)anthracene	MS	mg/kg	0.02	< 0.02	n/t	< 0.02	< 0.02	n/t	< 0.02	n/t	n/t	n/t	< 0.02	n/t	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(g,h,i)perylene	MS	mg/kg	0.02	< 0.02	n/t	0.10	< 0.02	n/t	< 0.02	n/t	n/t	n/t	0.04	n/t	0.15	0.13	< 0.02	0.02	0.05	0.05
Coronene	NS	mg/kg	0.02	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	0.02	n/t	< 0.02	n/t	n/t	n/t
Total PAH(16)	NS	mg/kg	0.34	< 0.34	n/t	1.23	< 0.34	n/t	< 0.34	n/t	n/t	n/t	0.44	n/t	n/t	1.63	n/t	< 0.34	0.56	0.54
Total PAH(16) + Coronene	NS	mg/kg	0.34	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	2.26	n/t	< 0.36	n/t	n/t	n/t