



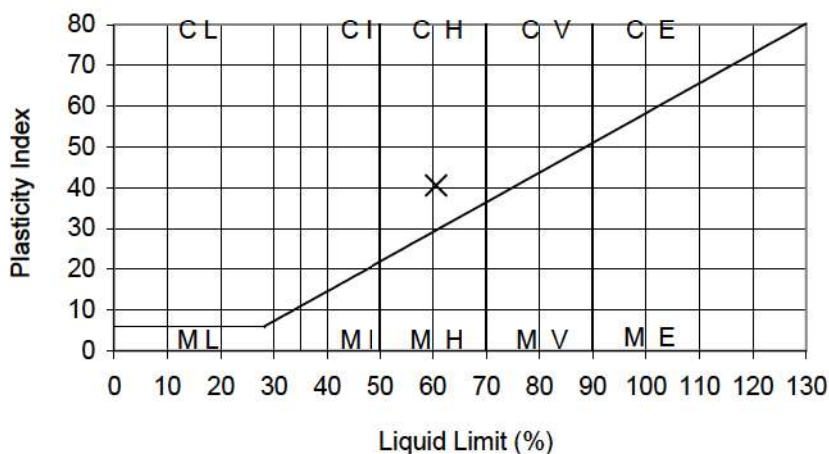
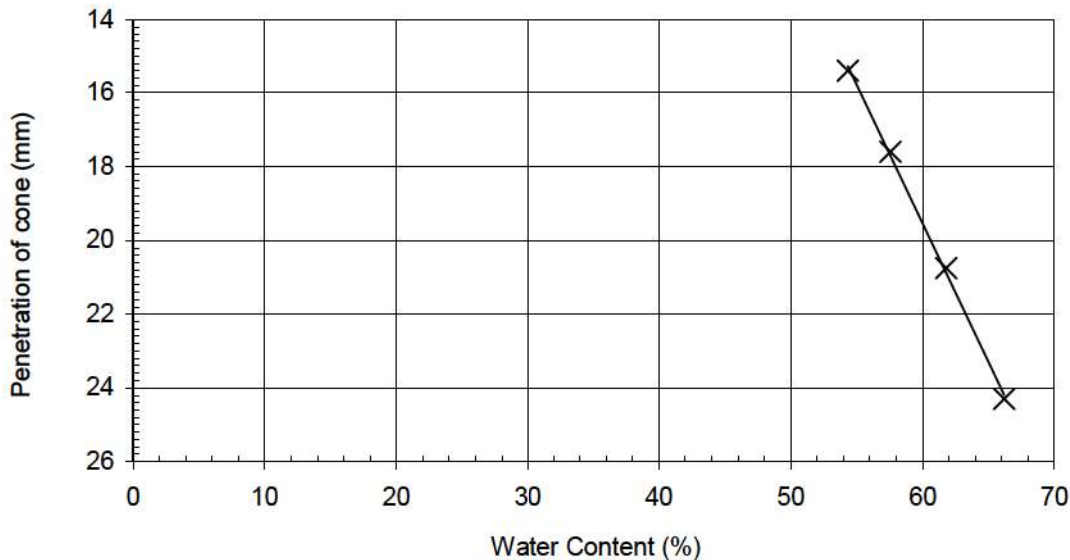
SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No.	<b>B26845</b>
Hole ID	TP60
Sample Ref	
Depth (m)	0.70-0.80
Sample Type	B

Non Engineering Description : Brown gravelly very sandy very silty CLAY. Gravel is fine to medium

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	37.2 %
Percentage retained on 425µm sieve :	62 %
Liquid Limit :	61 %
Plastic Limit :	20 %
Plasticity Index :	41

Equivalent water content of material passing 425µm sieve :	97.9 %
Liquidity Index :	1.90

Originator	Checked & Approved
DW	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
 Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5





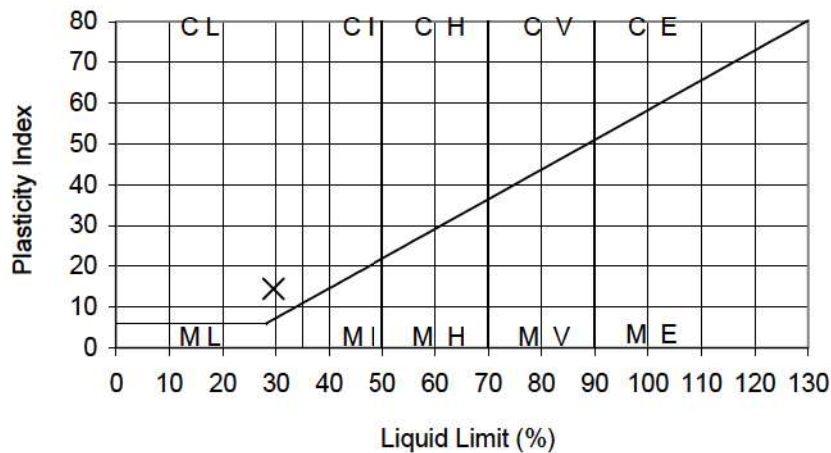
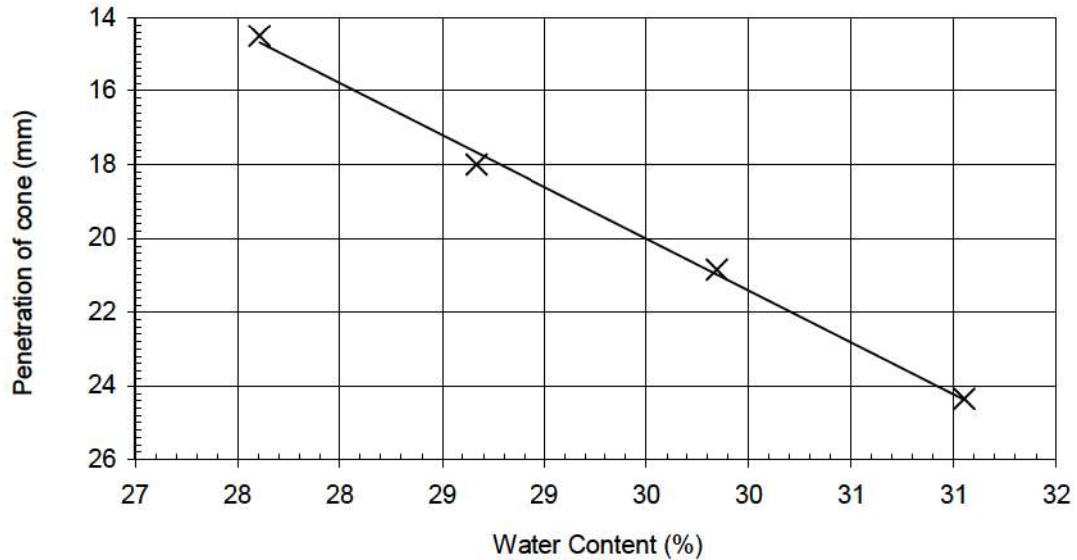
SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No.	<b>B26845</b>
Hole ID	TP69
Sample Ref	
Depth (m)	0.90-1.00
Sample Type	D

Non Engineering Description : Brown gravelly sandy CLAY. Gravel is fine to coarse

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	12.0 %
Percentage retained on 425µm sieve :	28 %
Liquid Limit :	29 %
Plastic Limit :	15 %
Plasticity Index :	14
Equivalent water content of material passing 425µm sieve :	16.7 %
Liquidity Index :	0.12

Originator	Checked & Approved
DW	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
 Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5





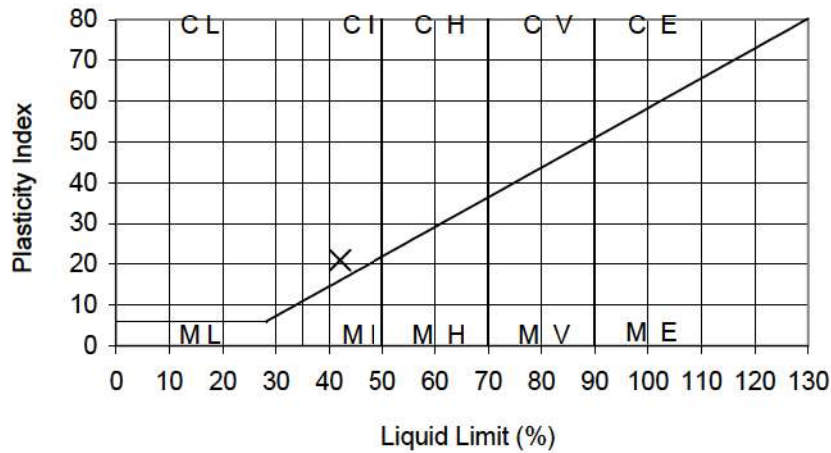
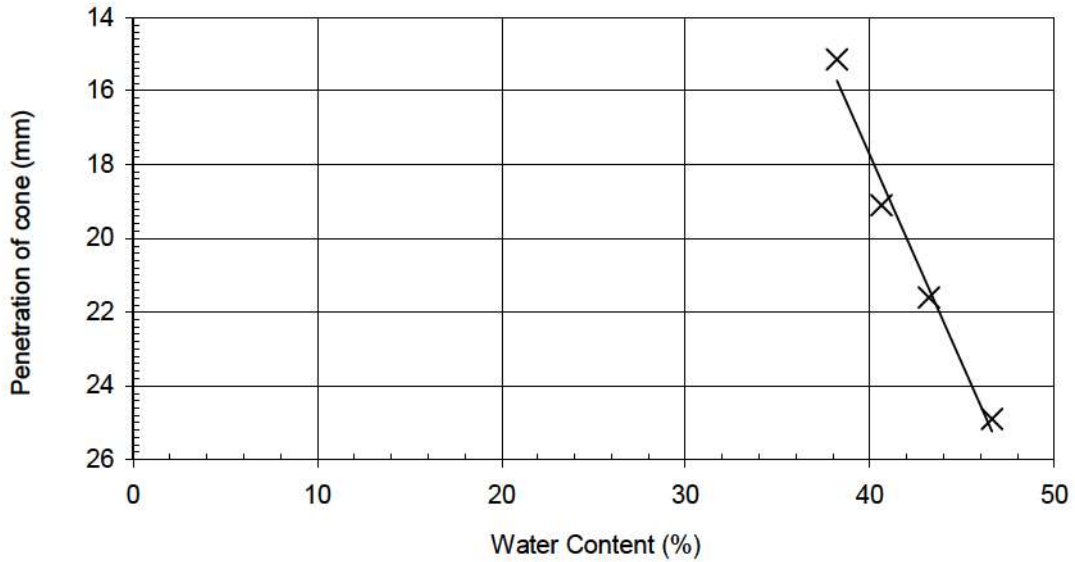
SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

<b>Contract No.</b>	<b>B26845</b>
Hole ID	TP74
Sample Ref	
Depth (m)	0.40-0.40
Sample Type	D

Non Engineering Description : Brown gravelly sandy very silty CLAY. Gravel is fine to medium

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	28.6 %
Percentage retained on 425µm sieve :	17 %
Liquid Limit :	42 %
Plastic Limit :	21 %
Plasticity Index :	21
Equivalent water content of material passing 425µm sieve :	34.5 %
Liquidity Index :	0.64

Originator	Checked & Approved
AK	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
 Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5



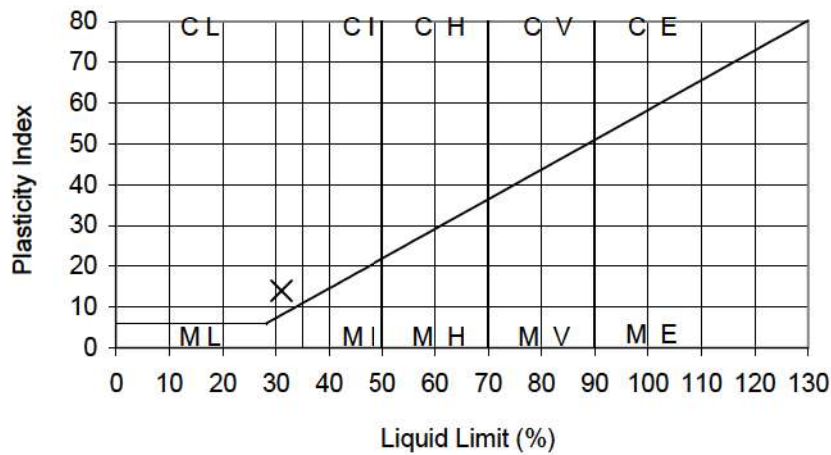
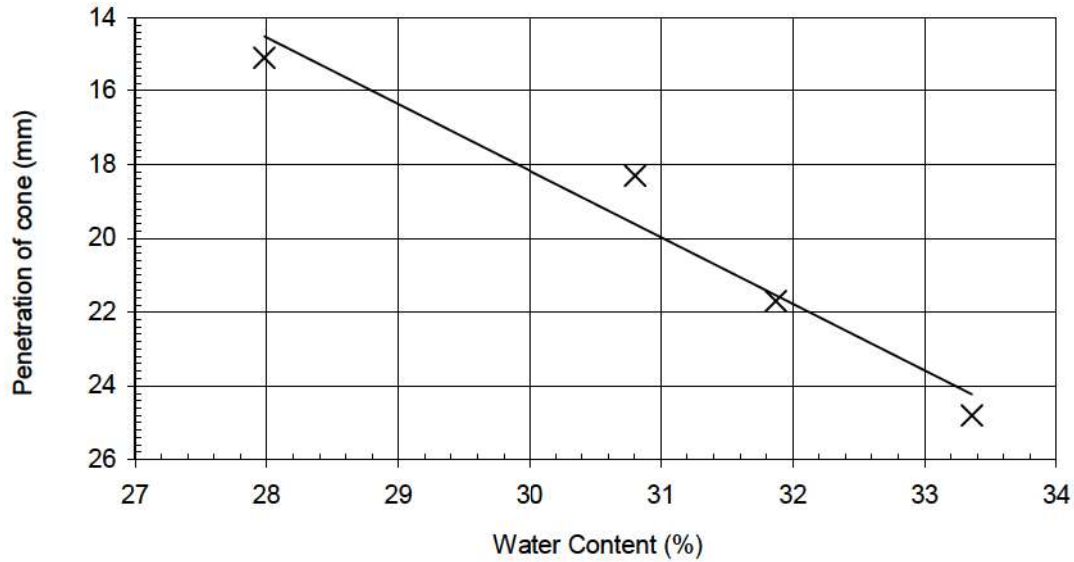


Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

<b>Contract No.</b>	<b>B26845</b>
Hole ID	TP75
Sample Ref	
Depth (m)	0.80-0.80
Sample Type	B

Non Engineering Description : Brown sandy clayey fine to coarse GRAVEL with cobbles

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	15.2 %
Percentage retained on 425µm sieve :	59 %
Liquid Limit :	31 %
Plastic Limit :	17 %
Plasticity Index :	14
Equivalent water content of material passing 425µm sieve :	37.1 %
Liquidity Index :	1.44

Originator	Checked & Approved
AK	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
Plastic Limit, Plasticity Index & Liquidity Index**  
BS EN ISO 17892-12:2018 Clause 5.3  
BS EN ISO 17892-12:2018 Clause 5.5



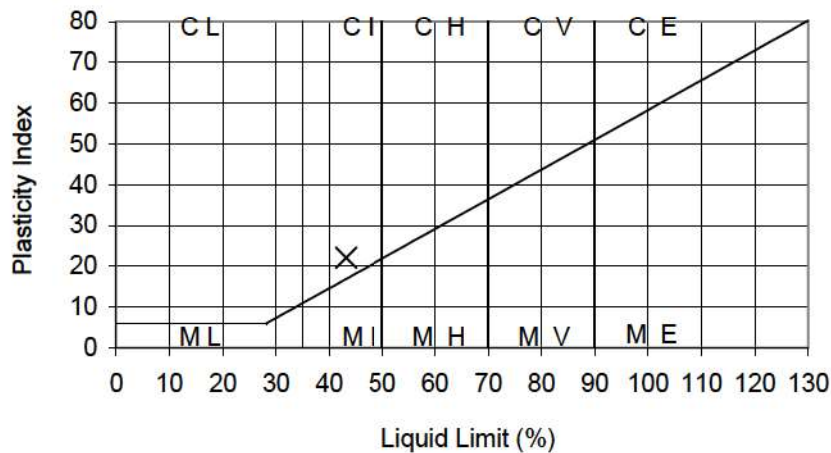
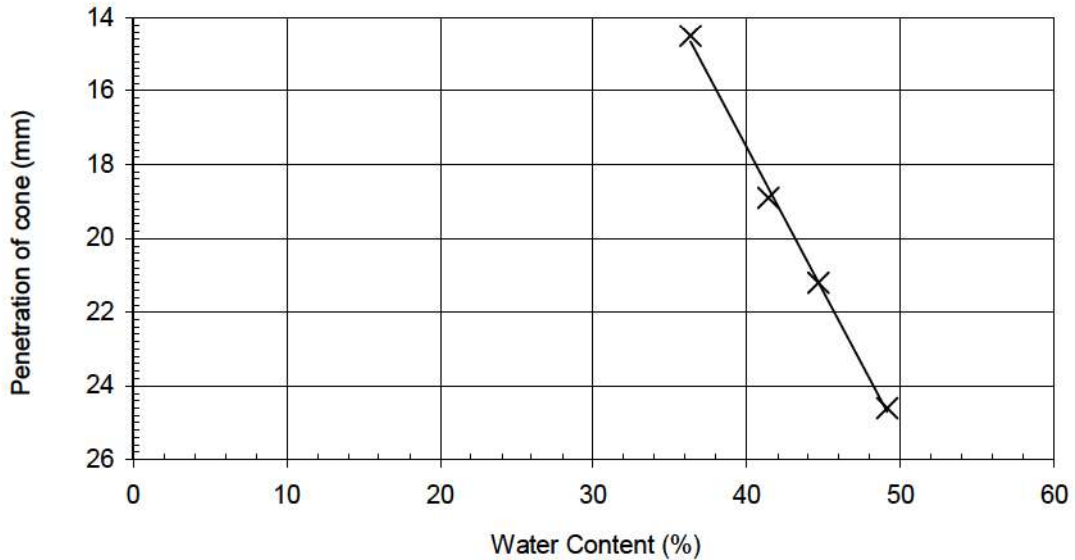


Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

<b>Contract No.</b>	<b>B26845</b>
Hole ID	TP79
Sample Ref	
Depth (m)	0.90-0.90
Sample Type	B

Non Engineering Description : Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	20.2 %
Percentage retained on 425µm sieve :	40 %
Liquid Limit :	43 %
Plastic Limit :	21 %
Plasticity Index :	22
Equivalent water content of material passing 425µm sieve :	33.7 %
Liquidity Index :	0.58

Originator	Checked & Approved
AK	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
 Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5





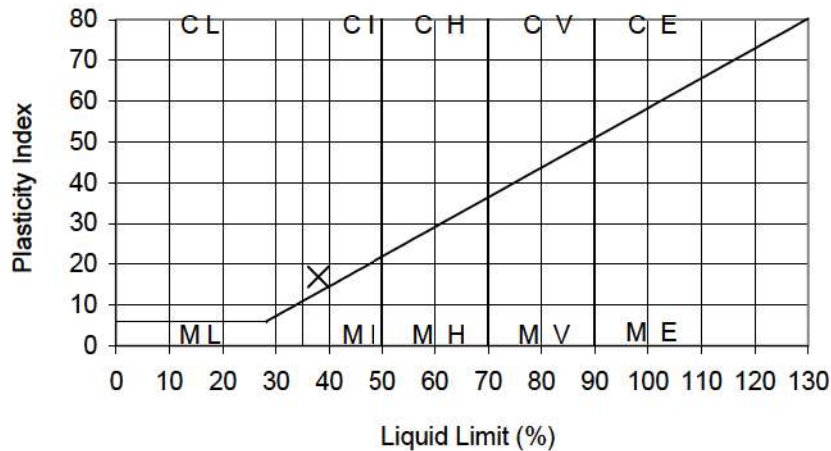
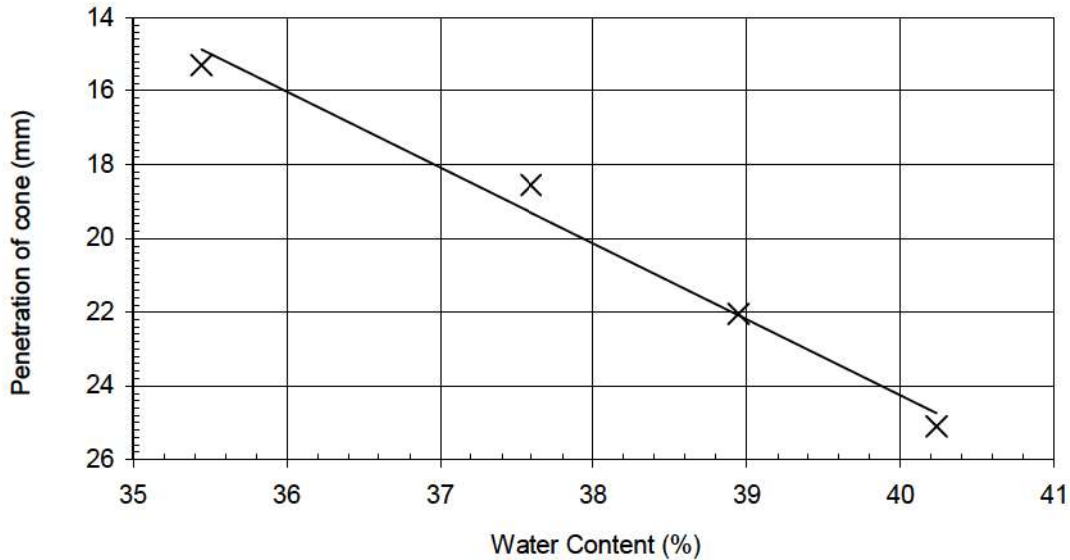
SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

<b>Contract No.</b>	<b>B26845</b>
Hole ID	TP82
Sample Ref	
Depth (m)	0.50-0.60
Sample Type	D

Non Engineering Description : Brown gravelly sandy CLAY. Gravel is fine to coarse

Preparation : Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	27.8 %
Percentage retained on 425µm sieve :	51 %
Liquid Limit :	38 %
Plastic Limit :	21 %
Plasticity Index :	17
Equivalent water content of material passing 425µm sieve :	56.7 %
Liquidity Index :	2.10

Originator	Checked & Approved
DW	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)**  
**Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5

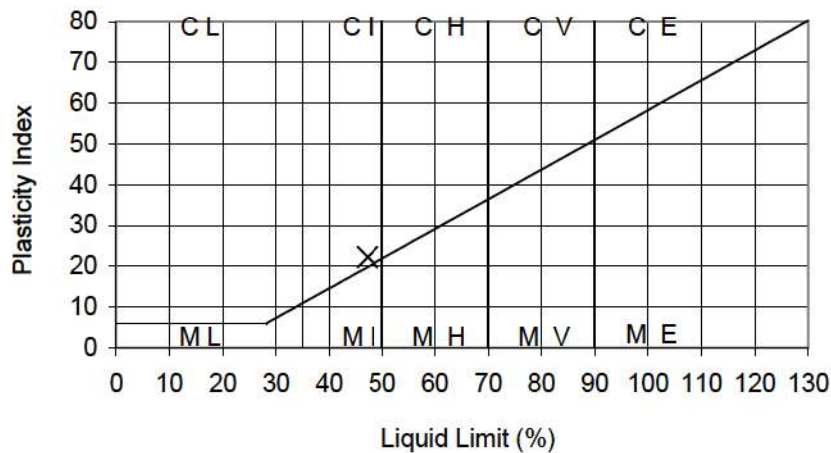
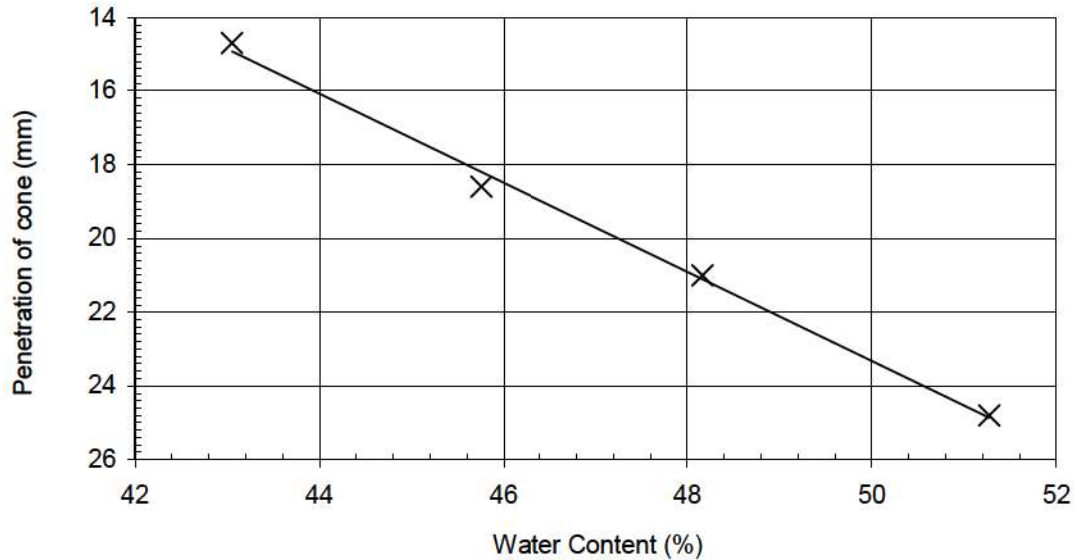


Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

<b>Contract No.</b>	<b>B26845</b>
Hole ID	TP97
Sample Ref	
Depth (m)	1.00-1.10
Sample Type	D

**Non Engineering Description :** Brown gravelly very sandy very silty CLAY with cobbles. Gravel is fine to coarse

**Preparation :** Sample oven dried, Percentage retained on 425µm sieve measured by wet sieving



Liquid Limit was determined by mixing using increasing water content and 30° cone

**Results :**

As Received Water Content : (BS EN ISO 17892-1:2014)	22.4 %
Percentage retained on 425µm sieve :	31 %
Liquid Limit :	47 %
Plastic Limit :	25 %
Plasticity Index :	22
Equivalent water content of material passing 425µm sieve :	32.5 %
Liquidity Index :	0.34

Originator	Checked & Approved
AK	CD 05/08/2021

**Liquid Limit (Four Point Cone Penetrometer Method)  
 Plastic Limit, Plasticity Index & Liquidity Index**  
 BS EN ISO 17892-12:2018 Clause 5.3  
 BS EN ISO 17892-12:2018 Clause 5.5







SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY  
 Client Applied Geology Limited  
 Engineer

Contract No **B26845**  
 Hole TP102  
 Sample Ref  
 Depth (m) 0.80-0.90  
 Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	80
75.0 mm	68
63.0 mm	61
50.0 mm	45
37.5 mm	39
28.0 mm	34
20.0 mm	31
14.0 mm	30
10.0 mm	29
6.30 mm	27
5.00 mm	27
3.35 mm	24
2.00 mm	23
1.18 mm	21
630 µm	17
425 µm	15
300 µm	14
200 µm	13
150 µm	13
63 µm	12

**Non Engineering Description**  
 Brown sandy clayey fine to coarse GRAVEL with cobbles and organic matter

**Sample Proportions - %**

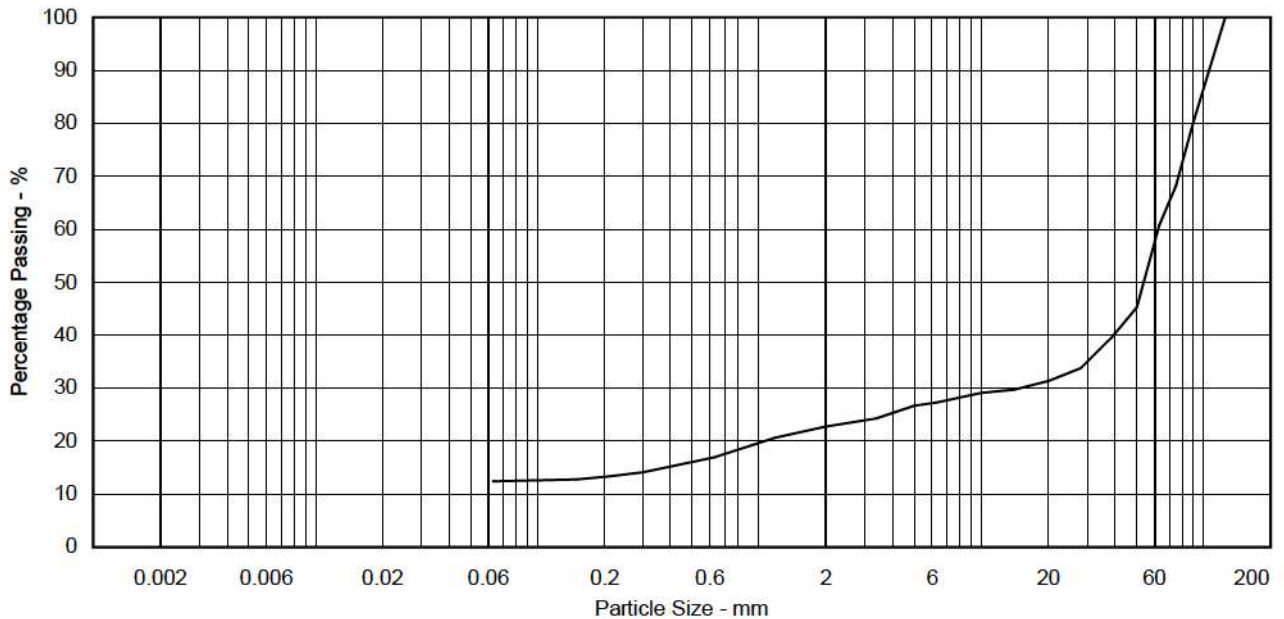
Cobbles	42.8
Gravel	34.5
Sand	10.3
Silt & Clay	12.4

**Particle Diameter - mm**

D100	125
D60	62
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**  
 Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP108

Engineer

Sample Ref

Depth (m) 0.90-0.90

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	94
50.0 mm	77
37.5 mm	67
28.0 mm	55
20.0 mm	46
14.0 mm	41
10.0 mm	37
6.30 mm	34
5.00 mm	33
3.35 mm	31
2.00 mm	30
1.18 mm	29
630 µm	28
425 µm	27
300 µm	24
200 µm	22
150 µm	20
63 µm	17

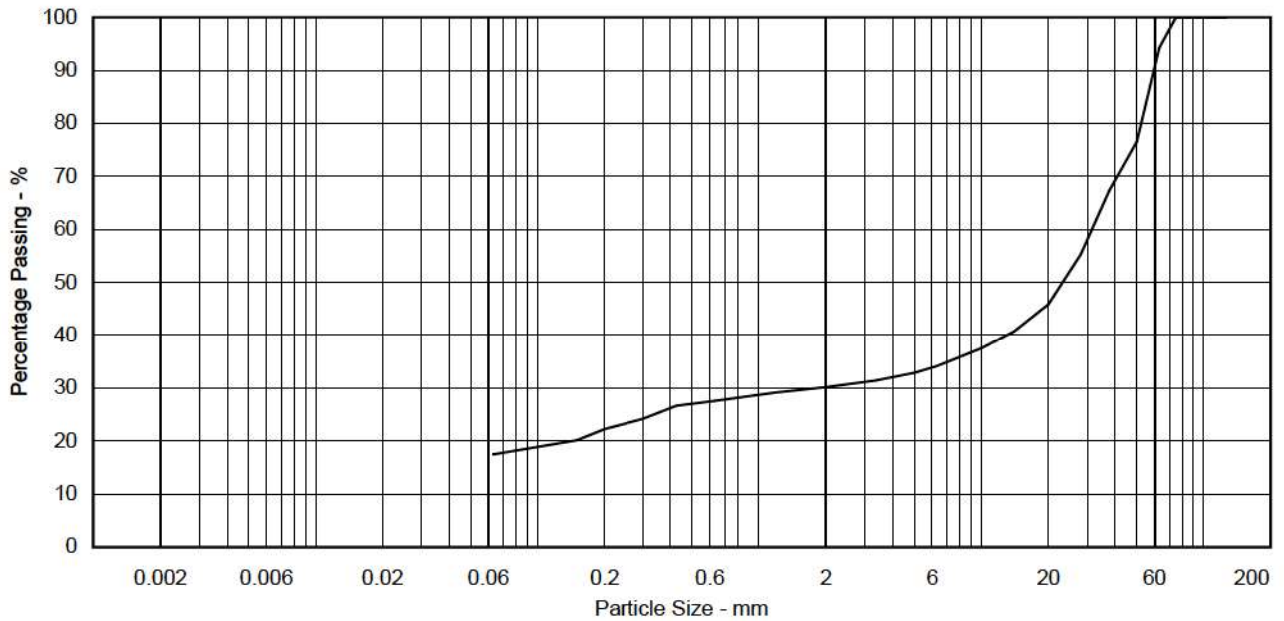
Non Engineering Description
Brown sandy clayey fine to coarse GRAVEL with cobbles

Sample Proportions - %	
Cobbles	9.8
Gravel	60.0
Sand	12.7
Silt & Clay	17.5

Particle Diameter - mm	
D100	75
D60	31
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes
Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY  
 Client Applied Geology Limited  
 Engineer

Contract No **B26845**

Hole TP125  
 Sample Ref  
 Depth (m) 0.90-1.00  
 Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	100
6.30 mm	100
5.00 mm	100
3.35 mm	98
2.00 mm	96
1.18 mm	93
630 µm	90
425 µm	89
300 µm	88
200 µm	88
150 µm	88
63 µm	87

**Non Engineering Description**  
 Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine

**Sample Proportions - %**

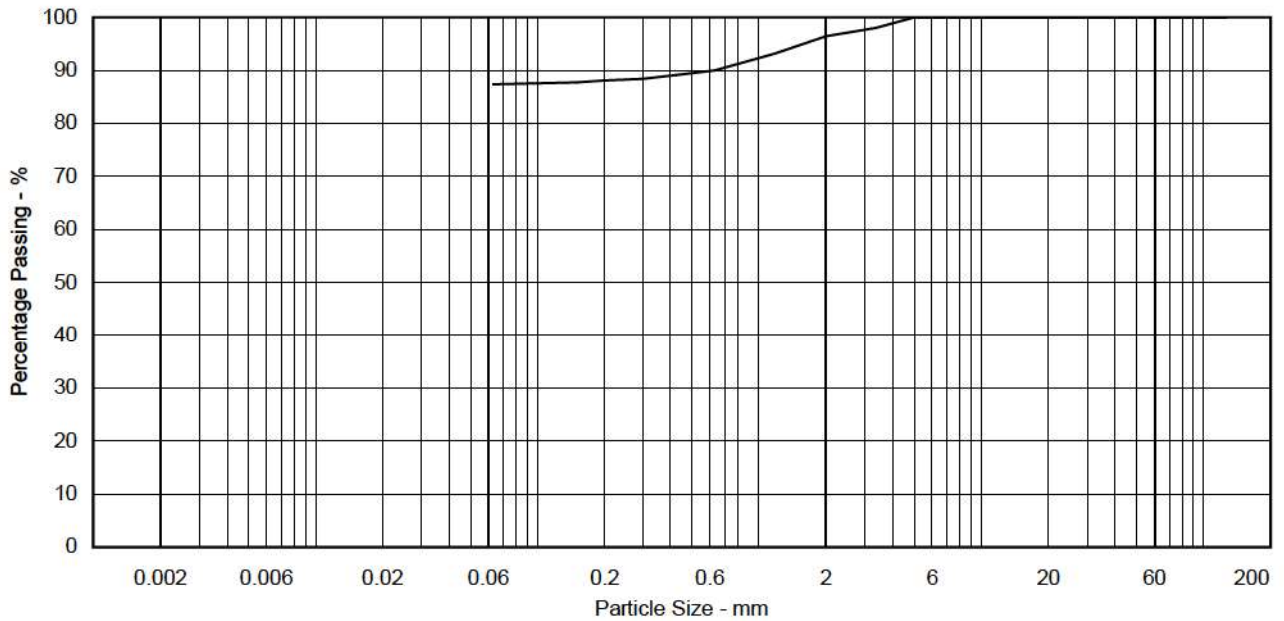
Cobbles	0.0
Gravel	3.6
Sand	9.1
Silt & Clay	87.4

**Particle Diameter - mm**

D100	5.0
D60	
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			




Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method





 SITE INVESTIGATION AND LABORATORY SERVICES	Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY	Contract No	<b>B26845</b>
	Client	Applied Geology Limited	Hole	TP13
	Engineer		Sample Ref	
			Depth (m)	0.70-0.70
			Sample Type	BX2

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	83
50.0 mm	69
37.5 mm	52
28.0 mm	42
20.0 mm	38
14.0 mm	37
10.0 mm	35
6.30 mm	33
5.00 mm	31
3.35 mm	29
2.00 mm	28
1.18 mm	26
630 µm	23
425 µm	22
300 µm	20
200 µm	18
150 µm	17
63 µm	15

**Non Engineering Description**

Brown sandy clayey fine to coarse GRAVEL with cobbles

**Sample Proportions - %**

Cobbles	20.2
Gravel	52.1
Sand	13.0
Silt & Clay	14.7

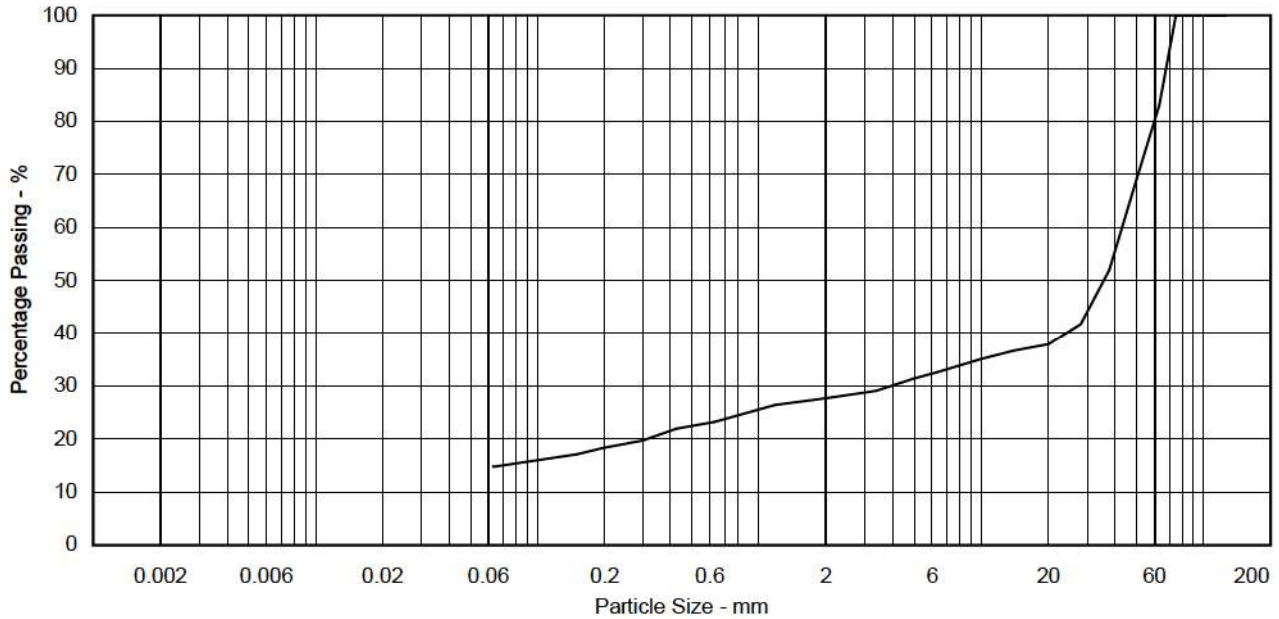
**Particle Diameter - mm**



D100	75
D60	43
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved	<b>PARTICLE SIZE DISTRIBUTION</b> BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method	
TP	 05/08/2021		



SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP138

Sample Ref

Depth (m) 0.60-0.60

Engineer

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	89
50.0 mm	89
37.5 mm	68
28.0 mm	61
20.0 mm	53
14.0 mm	49
10.0 mm	43
6.30 mm	38
5.00 mm	36
3.35 mm	33
2.00 mm	30
1.18 mm	29
630 µm	26
425 µm	25
300 µm	23
200 µm	21
150 µm	19
63 µm	16

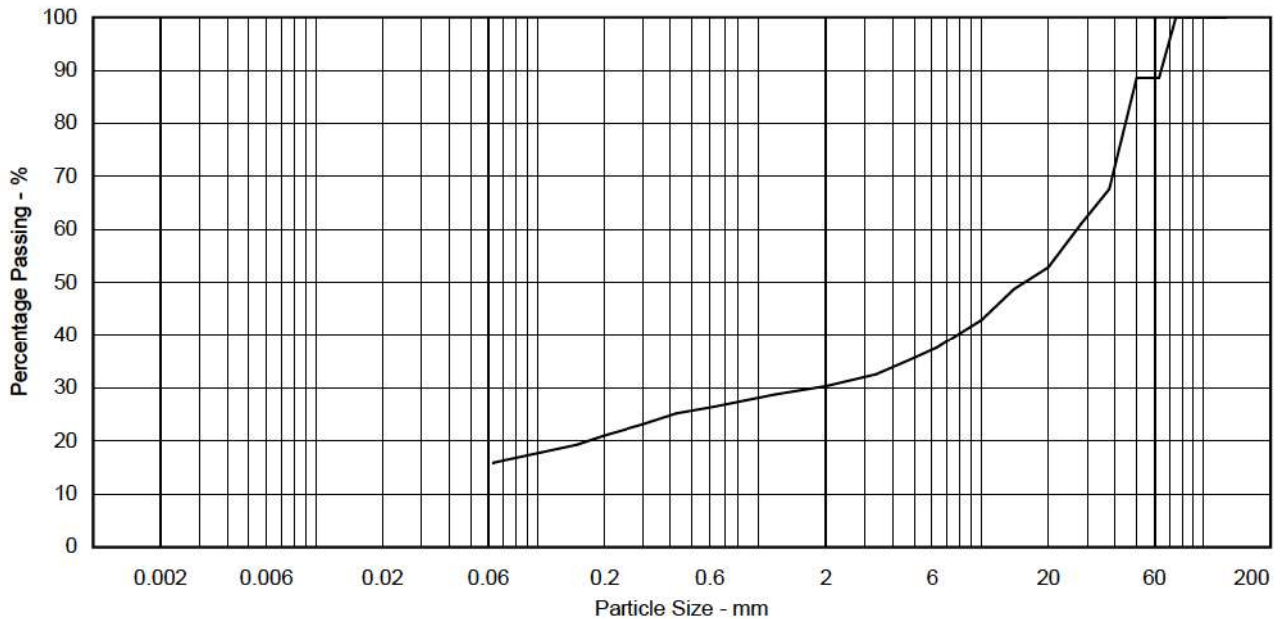
Non Engineering Description
Brown sandy clayey fine to coarse GRAVEL with cobbles

Sample Proportions - %	
Cobbles	11.3
Gravel	58.4
Sand	14.4
Silt & Clay	15.9

Particle Diameter - mm	
D100	75
D60	27
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes
Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP142

Engineer

Sample Ref

Depth (m) 0.60-0.60

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	91
37.5 mm	80
28.0 mm	70
20.0 mm	63
14.0 mm	61
10.0 mm	60
6.30 mm	58
5.00 mm	57
3.35 mm	55
2.00 mm	54
1.18 mm	53
630 µm	50
425 µm	48
300 µm	43
200 µm	40
150 µm	37
63 µm	33

**Non Engineering Description**

Brown silty very sandy very clayey fine to coarse GRAVEL with cobbles and rootlets

**Sample Proportions - %**

Cobbles	2.1
Gravel	44.2
Sand	20.7
Silt & Clay	33.0

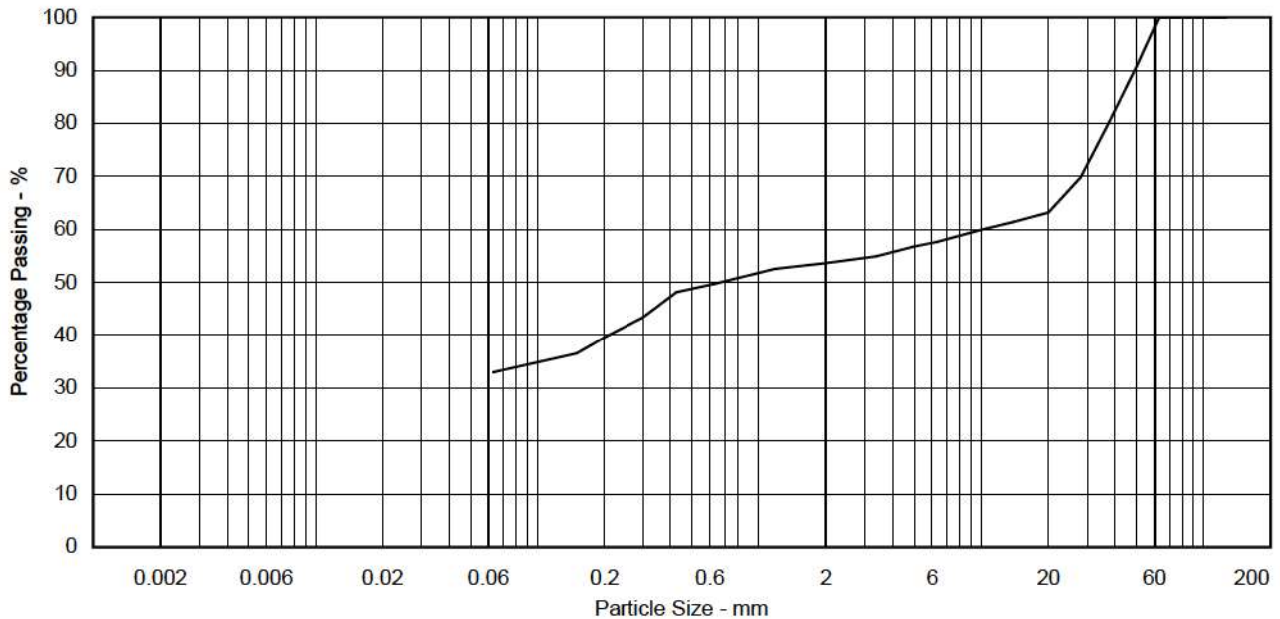
**Particle Diameter - mm**

D100	63
D60	10
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method







SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP145

Engineer

Sample Ref

Depth (m) 0.70-0.70

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	93
50.0 mm	85
37.5 mm	79
28.0 mm	68
20.0 mm	62
14.0 mm	52
10.0 mm	48
6.30 mm	45
5.00 mm	43
3.35 mm	41
2.00 mm	38
1.18 mm	36
630 µm	31
425 µm	29
300 µm	26
200 µm	24
150 µm	22
63 µm	19

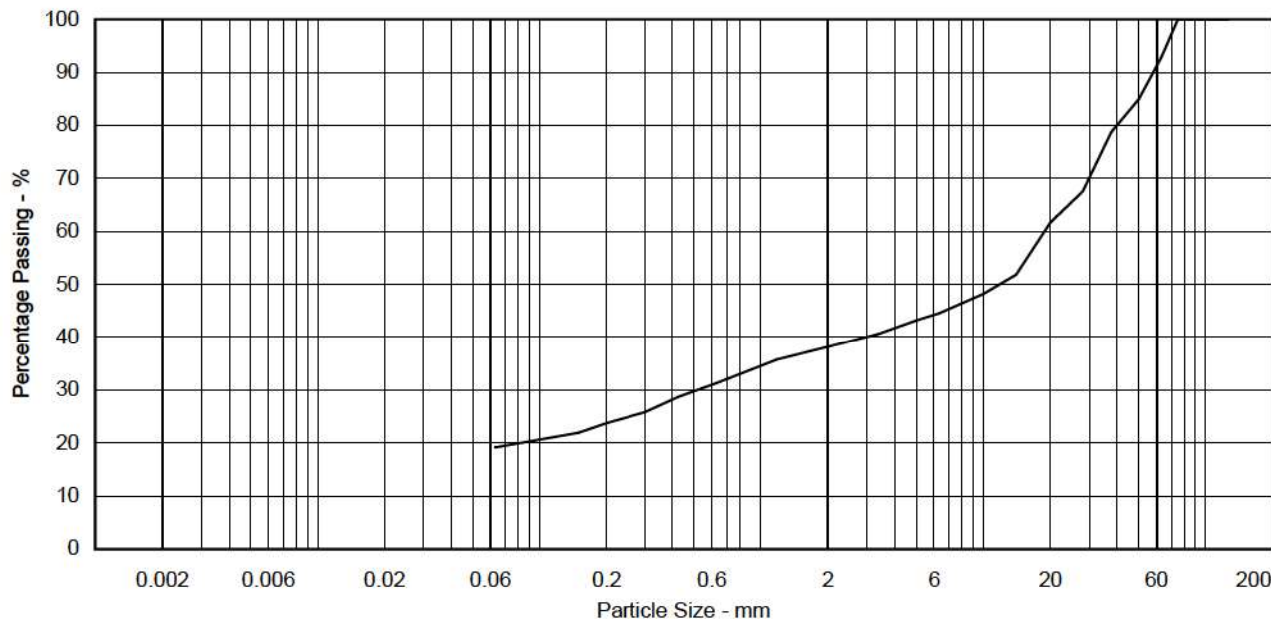
Non Engineering Description
Brown sandy clayey fine to coarse GRAVEL with cobbles

Sample Proportions - %	
Cobbles	9.0
Gravel	52.8
Sand	19.0
Silt & Clay	19.1

Particle Diameter - mm	
D100	75
D60	19
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



Originator	Checked & Approved
TP	CD 05/08/2021

**PARTICLE SIZE DISTRIBUTION**  
BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP15

Sample Ref

Depth (m) 0.70-0.70

Engineer

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	82
63.0 mm	82
50.0 mm	82
37.5 mm	81
28.0 mm	78
20.0 mm	73
14.0 mm	69
10.0 mm	65
6.30 mm	62
5.00 mm	60
3.35 mm	57
2.00 mm	54
1.18 mm	51
630 µm	47
425 µm	44
300 µm	41
200 µm	38
150 µm	35
63 µm	31

**Non Engineering Description**

Brown very clayey SAND and GRAVEL with cobbles.  
Gravel is fine to coarse

**Sample Proportions - %**

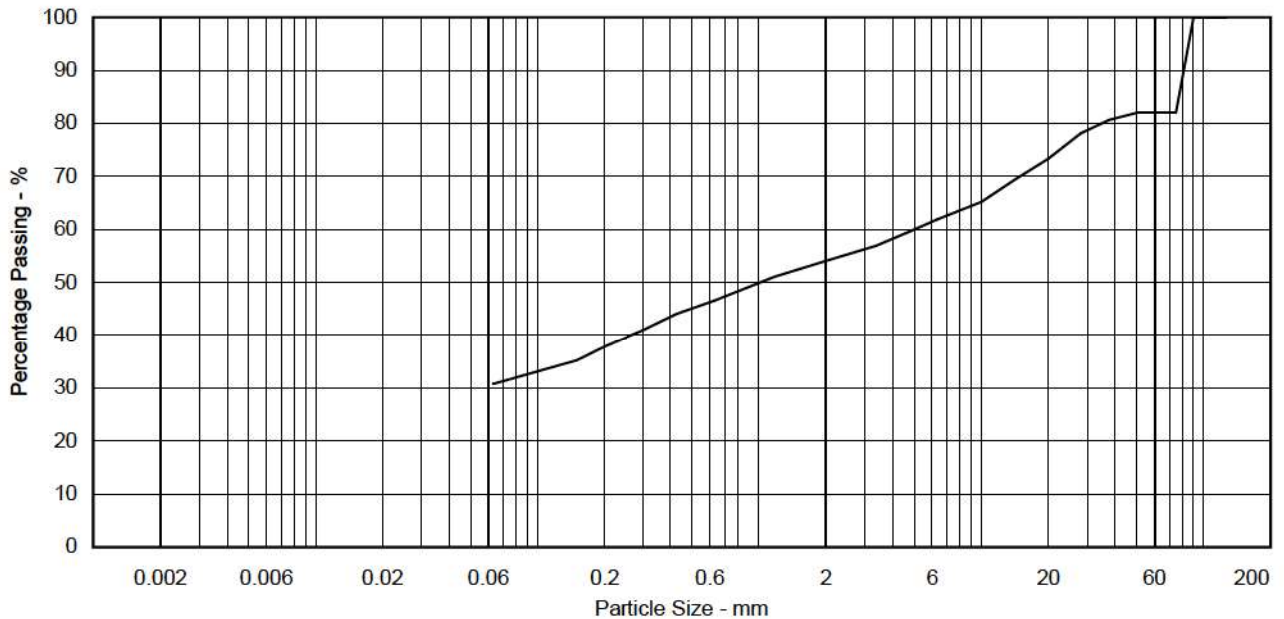
Cobbles	18.0
Gravel	27.9
Sand	23.3
Silt & Clay	30.8

**Particle Diameter - mm**

D100	90
D60	5.0
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**


Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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 SITE INVESTIGATION AND LABORATORY SERVICES	Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY	Contract No	<b>B26845</b>
	Client	Applied Geology Limited	Hole	TP2
	Engineer		Sample Ref	
			Depth (m)	0.90-0.90
			Sample Type	B

Particle Size	% Passing
125.0 mm	100
90.0 mm	86
75.0 mm	86
63.0 mm	69
50.0 mm	63
37.5 mm	58
28.0 mm	52
20.0 mm	52
14.0 mm	48
10.0 mm	47
6.30 mm	44
5.00 mm	43
3.35 mm	41
2.00 mm	40
1.18 mm	39
630 µm	36
425 µm	34
300 µm	32
200 µm	31
150 µm	29
63 µm	26

**Non Engineering Description**

Brown very clayey SAND and GRAVEL with cobbles.  
Gravel is fine to coarse

**Sample Proportions - %**

Cobbles	32.4
Gravel	27.8
Sand	13.7
Silt & Clay	26.2

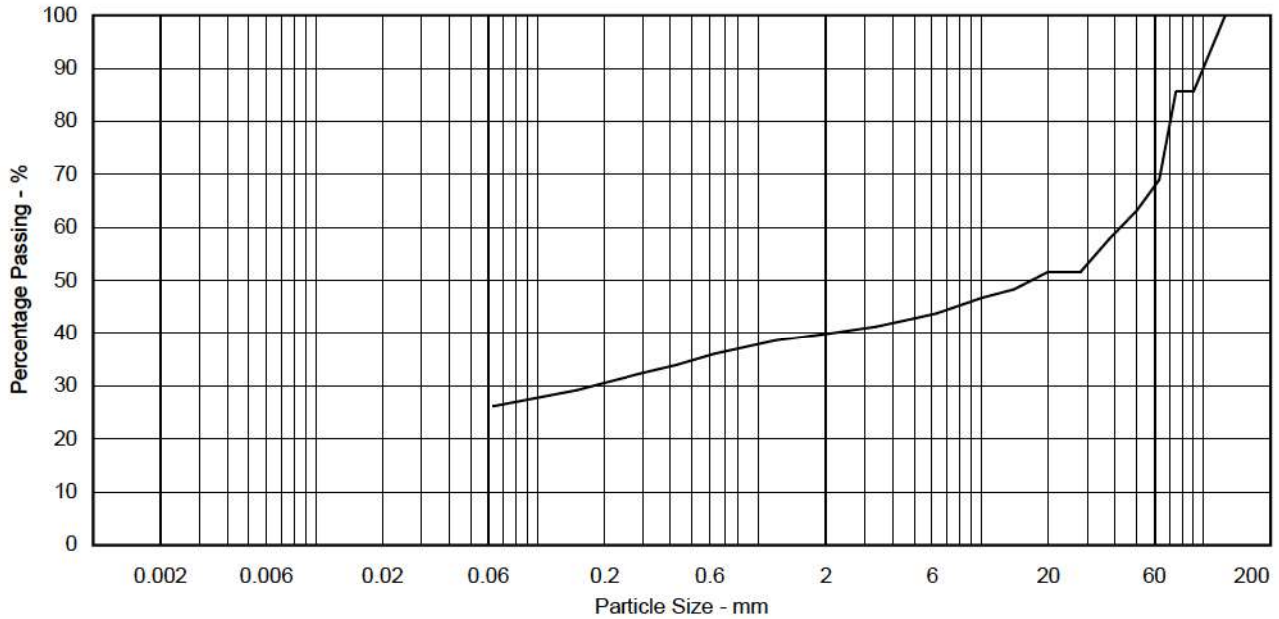
**Particle Diameter - mm**



D100	125
D60	42
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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TP	 05/08/2021		



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SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEYContract No **B26845**

Client Applied Geology Limited

Hole TP28

Engineer

Sample Ref

Depth (m) 0.50-0.60

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	86
63.0 mm	86
50.0 mm	72
37.5 mm	65
28.0 mm	51
20.0 mm	45
14.0 mm	41
10.0 mm	40
6.30 mm	38
5.00 mm	37
3.35 mm	36
2.00 mm	35
1.18 mm	34
630 µm	31
425 µm	30
300 µm	26
200 µm	25
150 µm	23
63 µm	21

## Non Engineering Description

Brown sandy very clayey fine to coarse GRAVEL with  
cobbles

## Sample Proportions - %

Cobbles	17.1
Gravel	47.7
Sand	13.9
Silt & Clay	21.3

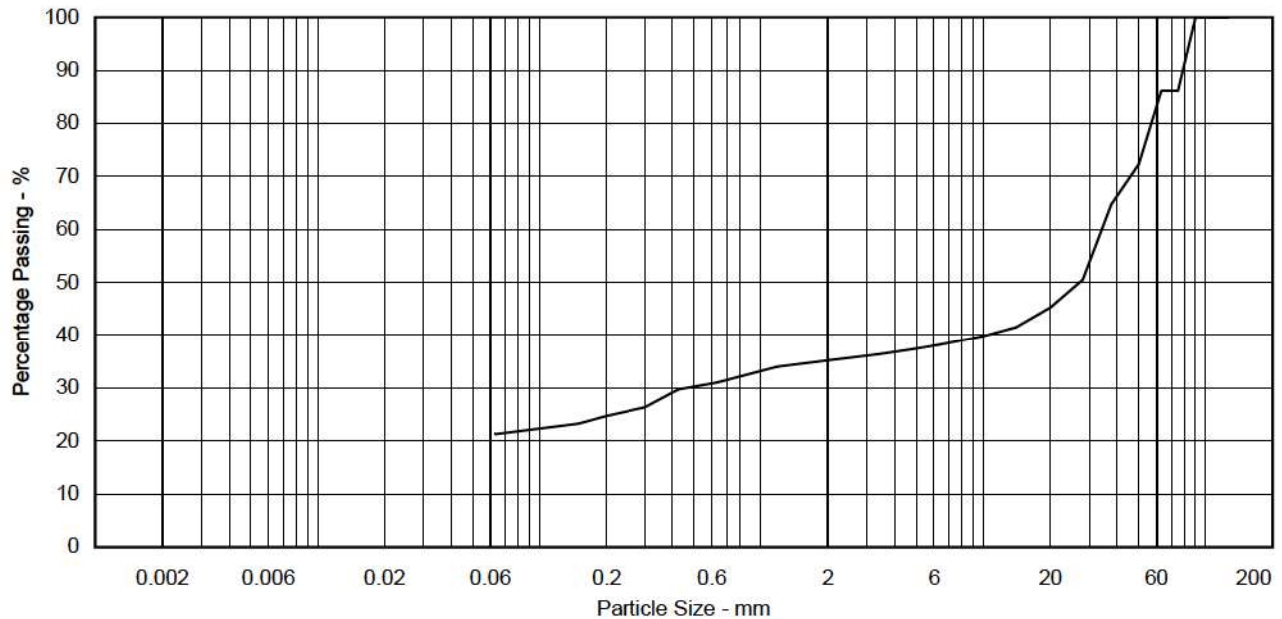
## Particle Diameter - mm

D100	90
D60	34
D10	
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	N/A

## Notes

Sample does not comply with BS EN ISO 17892-4 minimum mass  
requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method

Sheet 1 of 1



SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP38

Sample Ref

Depth (m) 1.60-1.70

Engineer

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	86
63.0 mm	63
50.0 mm	38
37.5 mm	28
28.0 mm	24
20.0 mm	19
14.0 mm	17
10.0 mm	16
6.30 mm	14
5.00 mm	14
3.35 mm	12
2.00 mm	11
1.18 mm	10
630 µm	9
425 µm	8
300 µm	7
200 µm	7
150 µm	6
63 µm	5

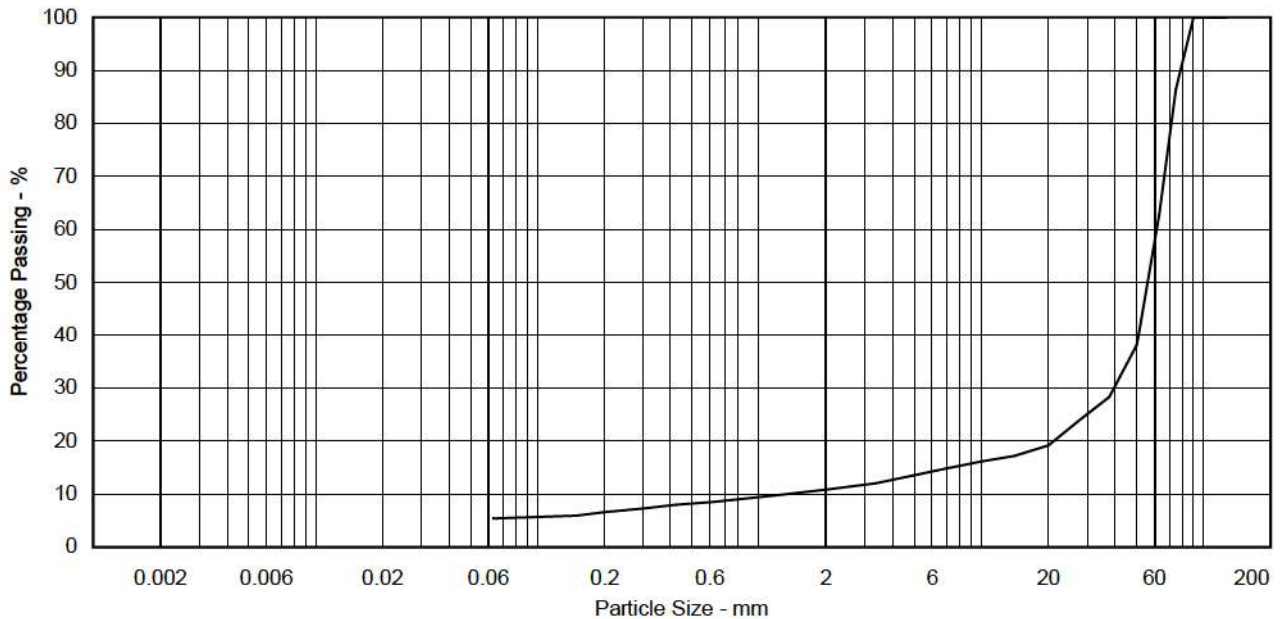
Non Engineering Description
Brown sandy clayey fine to coarse GRAVEL with cobbles

Sample Proportions - %	
Cobbles	42.9
Gravel	46.3
Sand	5.4
Silt & Clay	5.4

Particle Diameter - mm	
D100	90
D60	61
D10	1.3
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	46.9

Notes
Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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**TERRA TEK**

SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEYContract No **B26845**

Client Applied Geology Limited

Hole TP44

Engineer

Sample Ref

Depth (m) 0.40-0.50

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	92
50.0 mm	89
37.5 mm	77
28.0 mm	73
20.0 mm	68
14.0 mm	67
10.0 mm	63
6.30 mm	59
5.00 mm	57
3.35 mm	54
2.00 mm	50
1.18 mm	47
630 µm	41
425 µm	39
300 µm	35
200 µm	32
150 µm	30
63 µm	28

## Non Engineering Description

Brown very sandy very clayey fine to coarse GRAVEL with  
cobbles

## Sample Proportions - %

Cobbles	8.5
Gravel	41.5
Sand	21.6
Silt & Clay	28.3

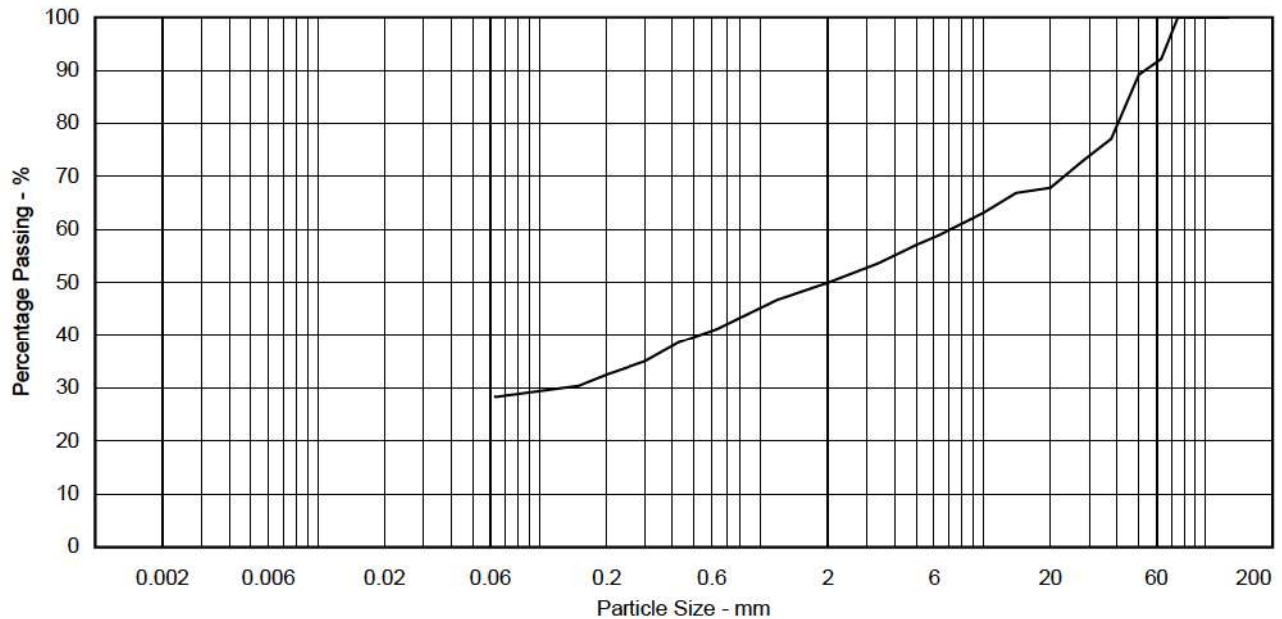
## Particle Diameter - mm

D100	75
D60	7.1
D10	
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	N/A

## Notes

Sample does not comply with BS EN ISO 17892-4 minimum mass  
requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method



Sheet 1 of 1



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SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEYContract No **B26845**

Client Applied Geology Limited

Hole TP48

Engineer

Sample Ref

Depth (m) 0.50-0.60

Sample Type D

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	76
28.0 mm	52
20.0 mm	39
14.0 mm	36
10.0 mm	34
6.30 mm	32
5.00 mm	32
3.35 mm	31
2.00 mm	30
1.18 mm	28
630 µm	23
425 µm	19
300 µm	12
200 µm	11
150 µm	10
63 µm	9

## Non Engineering Description

Brown clayey very sandy fine to coarse GRAVEL

## Sample Proportions - %

Cobbles	0.0
Gravel	70.2
Sand	21.0
Silt & Clay	8.8

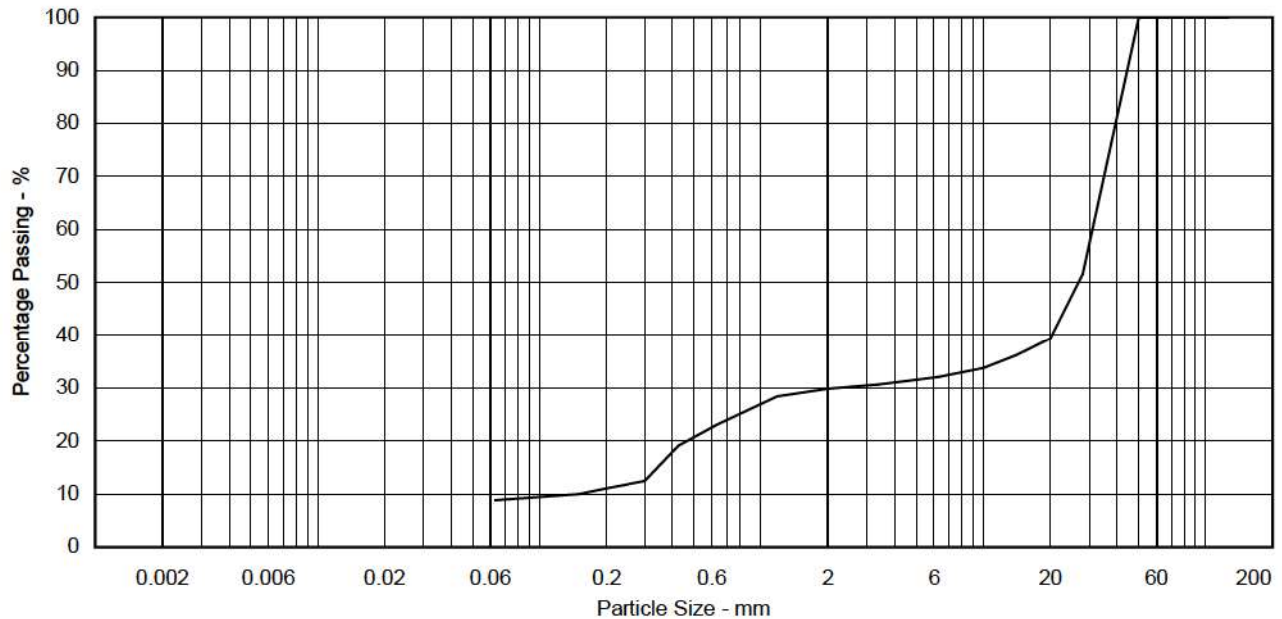
## Particle Diameter - mm

D100	50
D60	31
D10	0.15
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	206.7

## Notes

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method**TK**

Sheet 1 of 1



SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP60

Sample Ref

Depth (m) 0.70-0.80

Engineer

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	98
6.30 mm	97
5.00 mm	96
3.35 mm	95
2.00 mm	94
1.18 mm	93
630 µm	87
425 µm	85
300 µm	80
200 µm	78
150 µm	75
63 µm	72

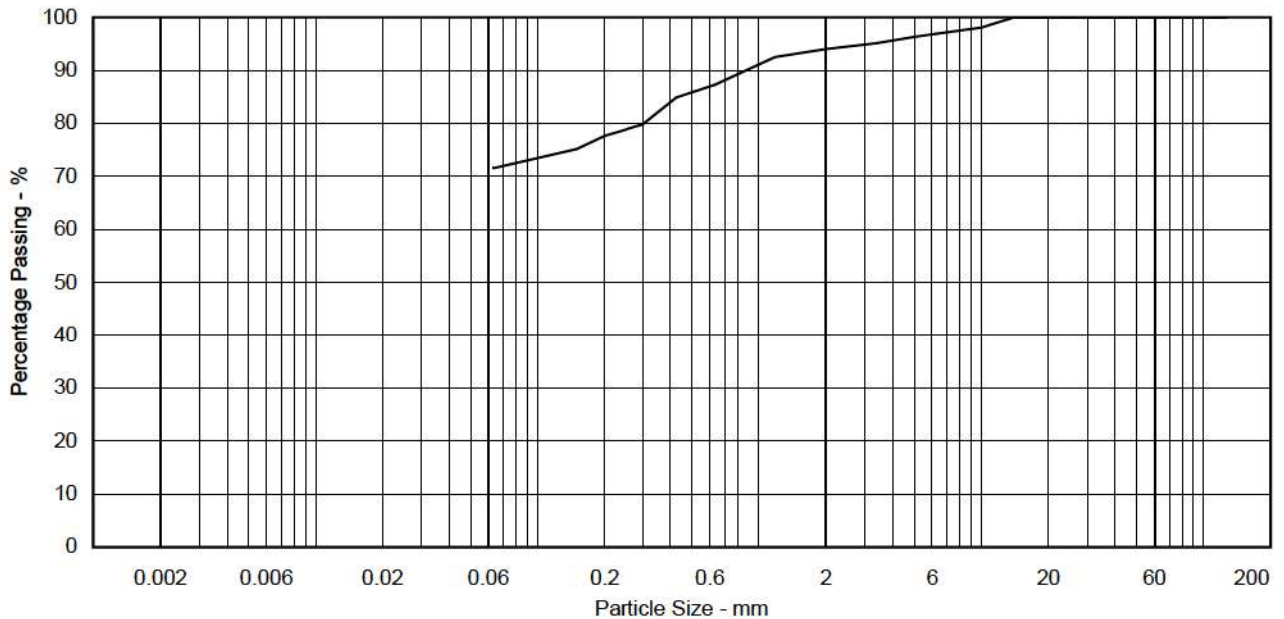
**Non Engineering Description**  
Brown gravelly very sandy very silty CLAY. Gravel is fine to medium

Sample Proportions - %	
Cobbles	0.0
Gravel	6.0
Sand	22.4
Silt & Clay	71.5

Particle Diameter - mm	
D100	14
D60	
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Contract No **B26845**

Client Applied Geology Limited

Hole TP62

Engineer

Sample Ref

Depth (m) 0.50-0.50

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	76
63.0 mm	70
50.0 mm	65
37.5 mm	58
28.0 mm	41
20.0 mm	32
14.0 mm	31
10.0 mm	28
6.30 mm	25
5.00 mm	24
3.35 mm	22
2.00 mm	21
1.18 mm	20
630 µm	19
425 µm	18
300 µm	16
200 µm	14
150 µm	13
63 µm	11

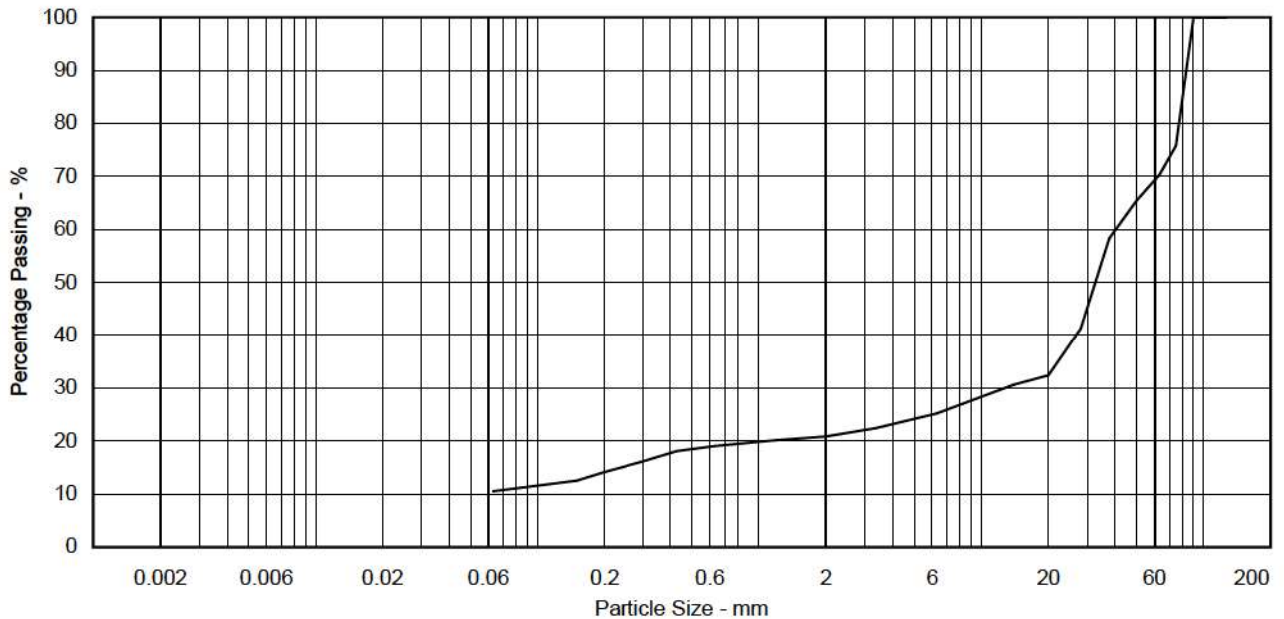
Non Engineering Description
Brown sandy silty fine to coarse GRAVEL with cobbles

Sample Proportions - %	
Cobbles	30.8
Gravel	48.3
Sand	10.4
Silt & Clay	10.5

Particle Diameter - mm	
D100	90
D60	40
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

Notes
Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEYContract No **B26845**

Client Applied Geology Limited

Hole TP75

Engineer

Sample Ref

Depth (m) 0.80-0.80

Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	92
63.0 mm	68
50.0 mm	65
37.5 mm	58
28.0 mm	52
20.0 mm	46
14.0 mm	40
10.0 mm	36
6.30 mm	33
5.00 mm	32
3.35 mm	29
2.00 mm	27
1.18 mm	26
630 µm	24
425 µm	23
300 µm	21
200 µm	19
150 µm	17
63 µm	14

## Non Engineering Description

Brown sandy clayey fine to coarse GRAVEL with cobbles

## Sample Proportions - %

Cobbles	32.9
Gravel	39.8
Sand	12.9
Silt & Clay	14.4

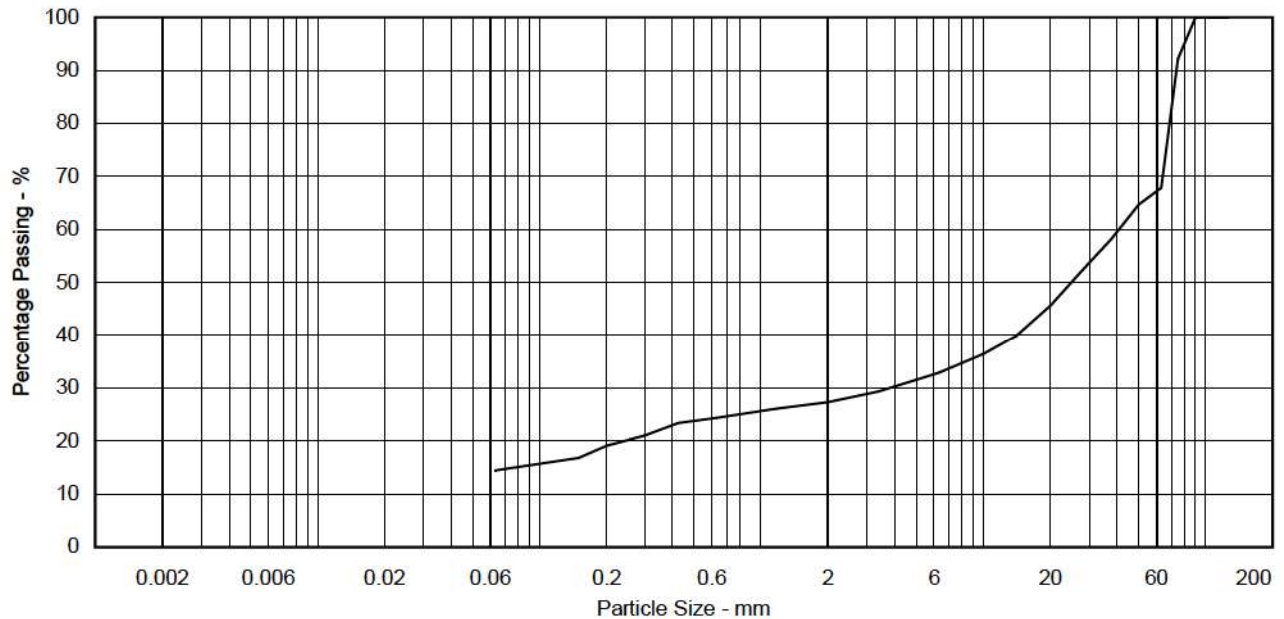
## Particle Diameter - mm

D100	90
D60	41
D10	
Uniformity Coefficient (SHW series 600, Table 6/1, footnote 5)	N/A

## Notes

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method

Sheet 1 of 1



SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY  
 Client Applied Geology Limited  
 Engineer

Contract No **B26845**  
 Hole TP79  
 Sample Ref  
 Depth (m) 0.90-0.90  
 Sample Type B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	100
6.30 mm	100
5.00 mm	99
3.35 mm	99
2.00 mm	99
1.18 mm	98
630 µm	94
425 µm	92
300 µm	89
200 µm	87
150 µm	83
63 µm	76

**Non Engineering Description**  
 Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine

**Sample Proportions - %**

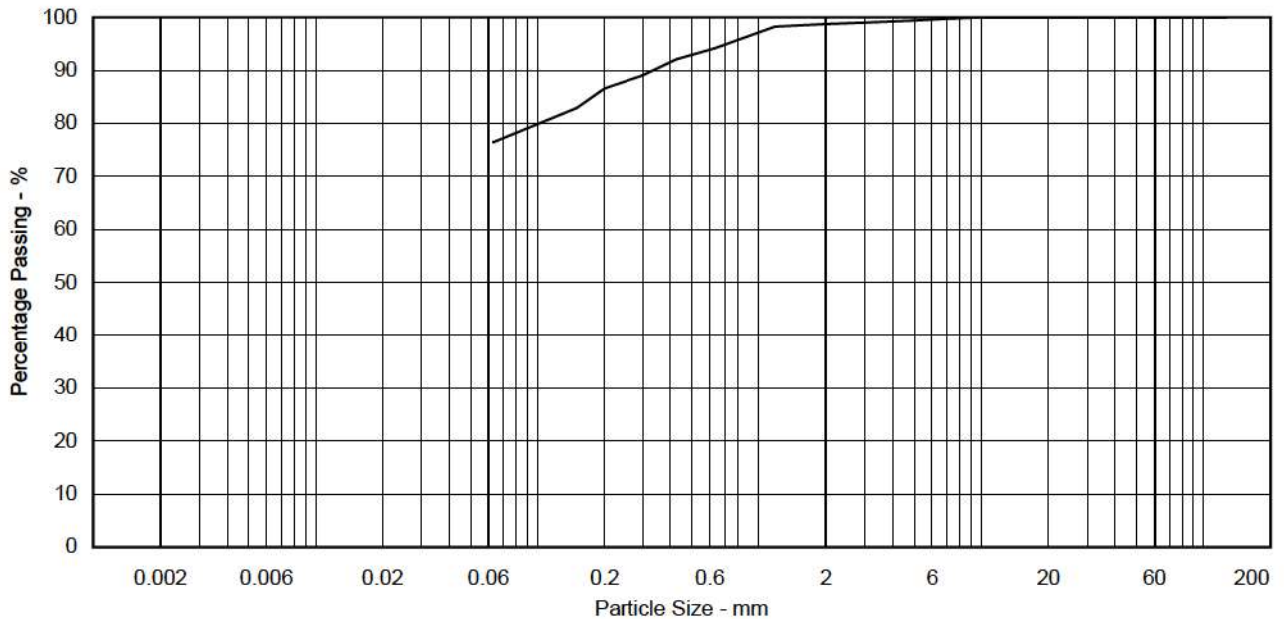
Cobbles	0.0
Gravel	1.2
Sand	22.3
Silt & Clay	76.5

**Particle Diameter - mm**

D100	10
D60	
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**


Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method



 SITE INVESTIGATION AND LABORATORY SERVICES	Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY	Contract No	<b>B26845</b>
	Client	Applied Geology Limited	Hole	TP89
	Engineer		Sample Ref	
			Depth (m)	0.80-0.80
			Sample Type	B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	89
63.0 mm	70
50.0 mm	70
37.5 mm	57
28.0 mm	53
20.0 mm	47
14.0 mm	45
10.0 mm	42
6.30 mm	40
5.00 mm	39
3.35 mm	38
2.00 mm	37
1.18 mm	35
630 µm	32
425 µm	30
300 µm	27
200 µm	24
150 µm	21
63 µm	19

**Non Engineering Description**

Brown clayey SAND and GRAVEL with cobbles. Gravel is fine to coarse

**Sample Proportions - %**

Cobbles	30.2
Gravel	32.9
Sand	17.9
Silt & Clay	19.0

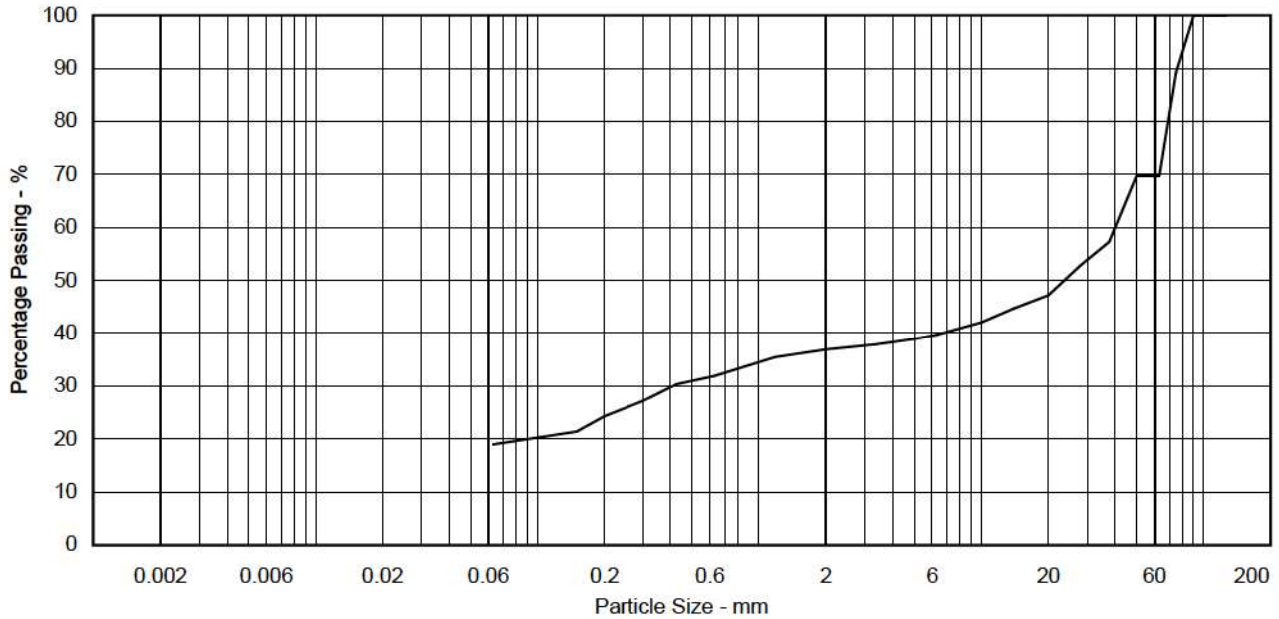
**Particle Diameter - mm**



D100	90
D60	40
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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TP	 05/08/2021		





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY  
 Client Applied Geology Limited  
 Engineer

Contract No **B26845**

Hole TP94  
 Sample Ref  
 Depth (m) 0.70  
 Sample Type Bx2

Particle Size	% Passing
125.0 mm	100
90.0 mm	90
75.0 mm	83
63.0 mm	52
50.0 mm	35
37.5 mm	32
28.0 mm	27
20.0 mm	23
14.0 mm	23
10.0 mm	22
6.30 mm	20
5.00 mm	19
3.35 mm	18
2.00 mm	17
1.18 mm	16
630 µm	14
425 µm	13
300 µm	13
200 µm	12
150 µm	11
63 µm	10

**Non Engineering Description**

COBBLES with brown sandy clayey fine to coarse gravel

**Sample Proportions - %**

Cobbles	51.7
Gravel	31.4
Sand	6.5
Silt & Clay	10.4

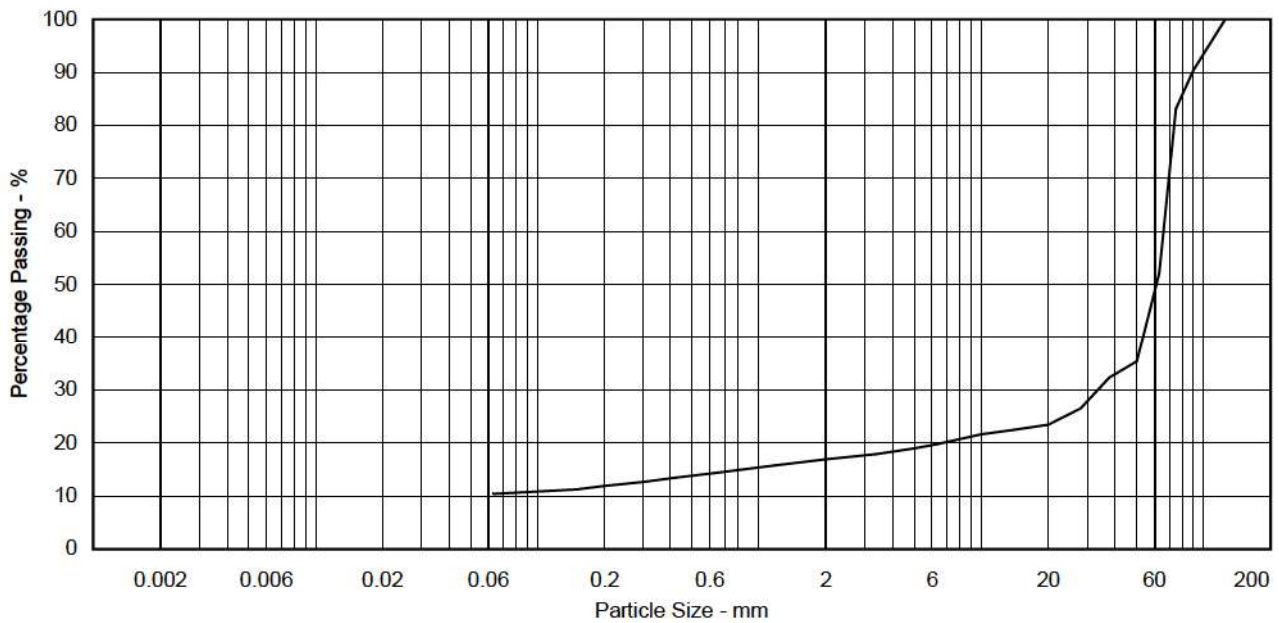
**Particle Diameter - mm**

D100	125
D60	66
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Sample does not comply with BS EN ISO 17892-4 minimum mass requirements


Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



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 BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method



 SITE INVESTIGATION AND LABORATORY SERVICES	Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY	Contract No	<b>B26845</b>
	Client	Applied Geology Limited	Hole	TP97
	Engineer		Sample Ref	
			Depth (m)	1.00-1.10
			Sample Type	B

Particle Size	% Passing
125.0 mm	100
90.0 mm	100
75.0 mm	78
63.0 mm	78
50.0 mm	78
37.5 mm	78
28.0 mm	78
20.0 mm	77
14.0 mm	76
10.0 mm	74
6.30 mm	71
5.00 mm	69
3.35 mm	68
2.00 mm	66
1.18 mm	64
630 µm	61
425 µm	59
300 µm	56
200 µm	53
150 µm	49
63 µm	44

**Non Engineering Description**

Brown gravelly very sandy very silty CLAY with cobbles.  
Gravel is fine to coarse

**Sample Proportions - %**

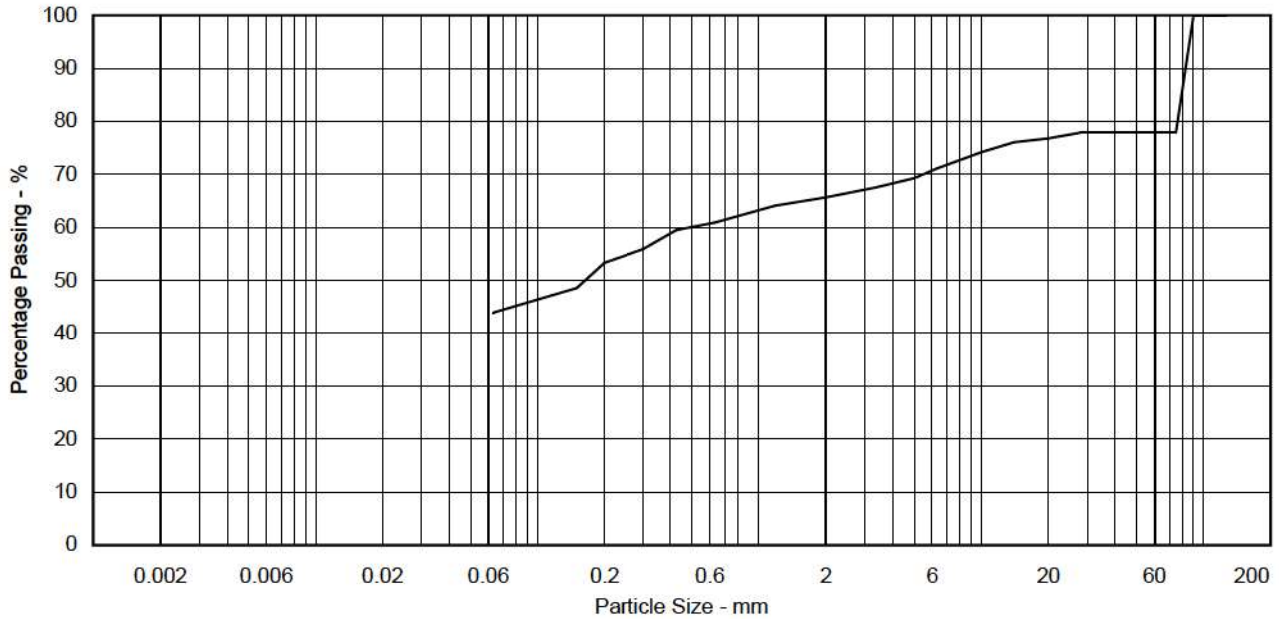
Cobbles	22.1
Gravel	12.2
Sand	21.7
Silt & Clay	43.9



**Particle Diameter - mm**

D100	90
D60	0.49
D10	
Uniformity Coefficient <small>(SHW series 600, Table 6/1, footnote 5)</small>	N/A

**Notes**

Clay	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles
	Silt			Sand			Gravel			



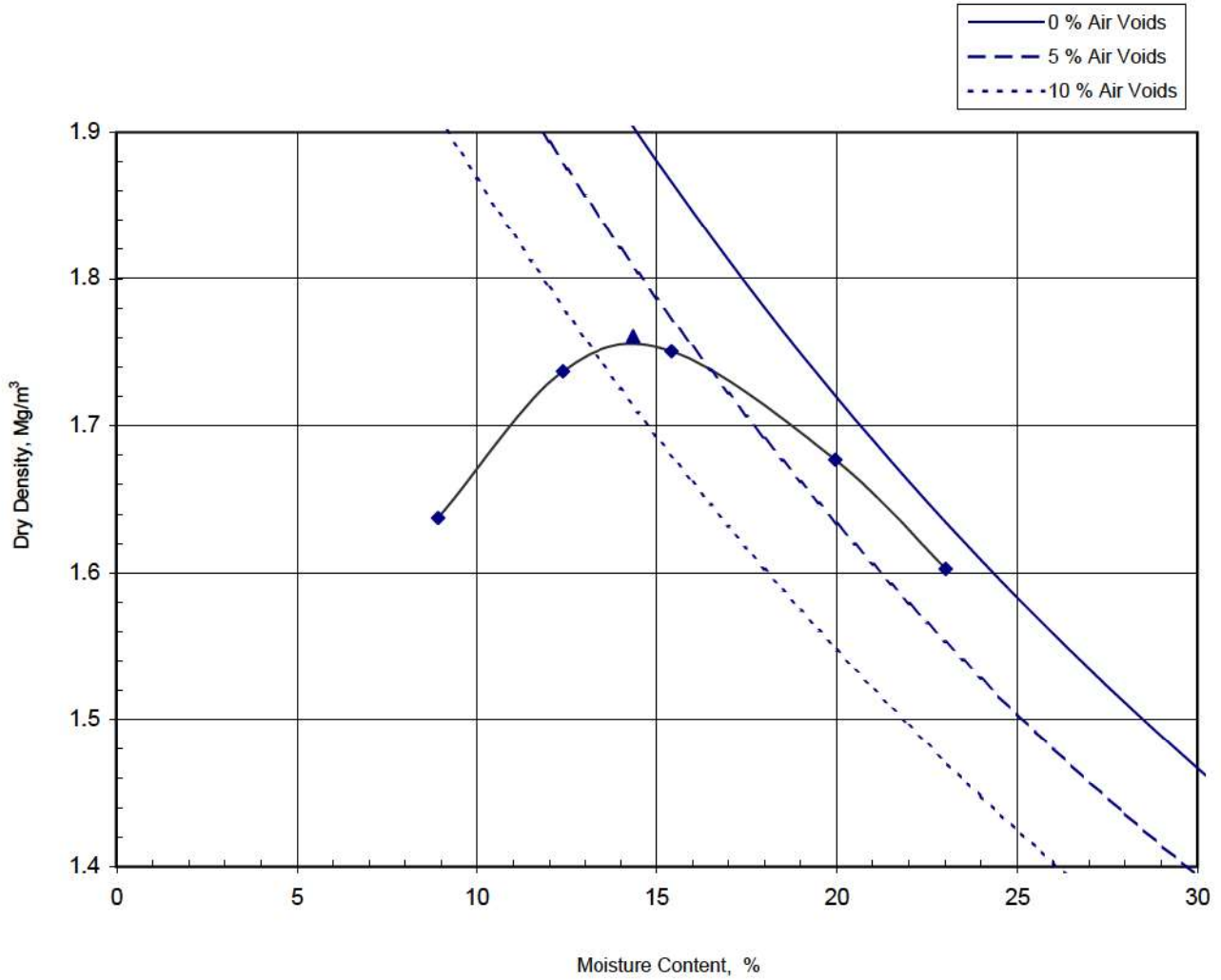
Originator	Checked & Approved	<b>PARTICLE SIZE DISTRIBUTION</b> BS EN ISO 17892-4 2016 Clause 5.2 - Sieving Method	
TP	 05/08/2021		



SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP125
Sample Ref	
Depth (m)	0.90-1.00
Sample Type	B



Non Engineering Description	Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine
Preparation	Oven dried
Test Method	4.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m³ 2.62
Natural Moisture Content	% 49
Maximum Dry Density	Mg/m³ 1.76
Optimum Moisture Content	% 14.4

Originator	Checked & Approved
SK	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.5



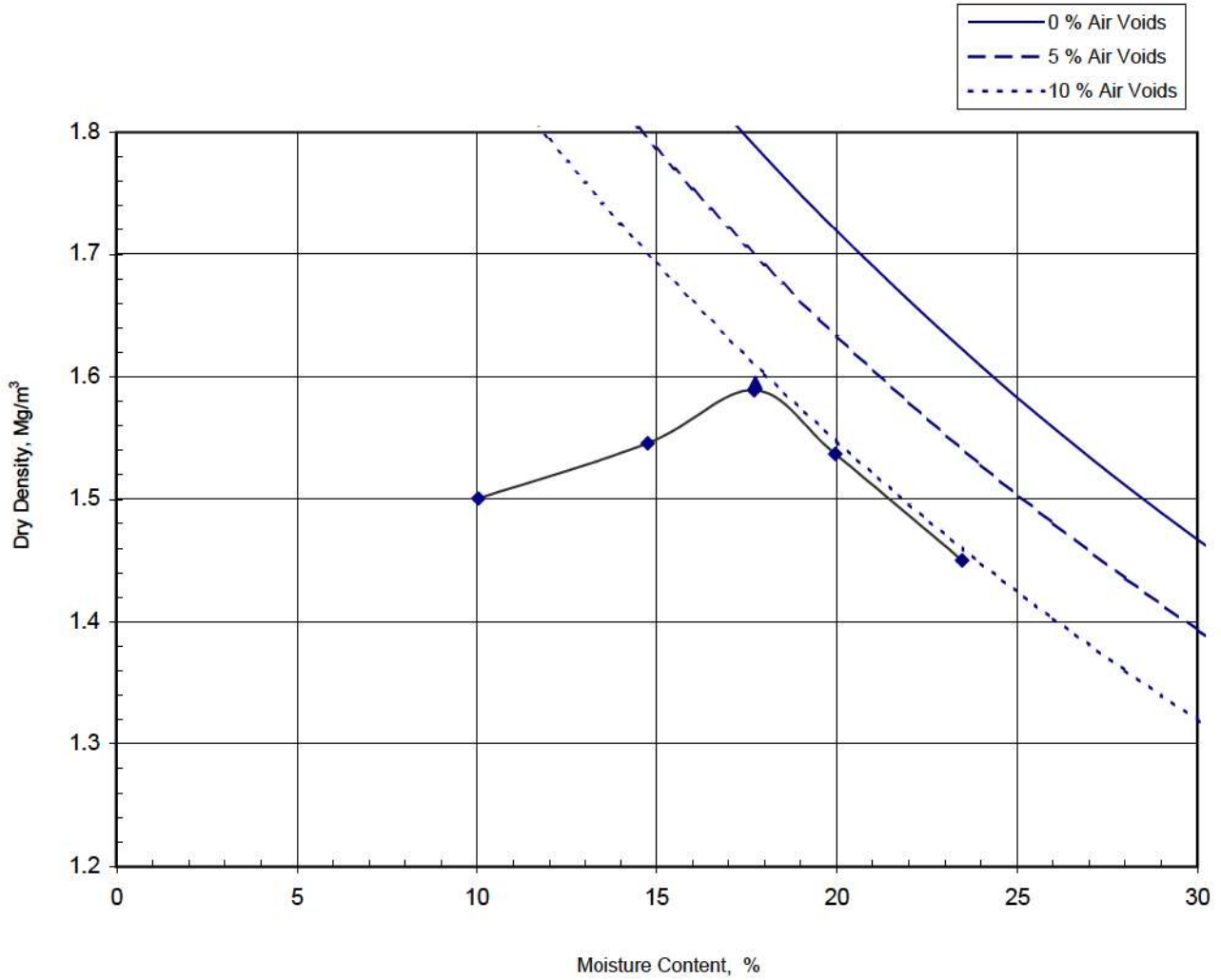




SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP125
Sample Ref	
Depth (m)	0.90-1.00
Sample Type	B



Non Engineering Description	Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine
Preparation	Oven dried
Test Method	2.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m³ 2.62
Natural Moisture Content	% 49
Maximum Dry Density	Mg/m³ 1.59
Optimum Moisture Content	% 17.7

Originator	Checked & Approved
SK	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.3





SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY

Client Applied Geology Limited

Engineer

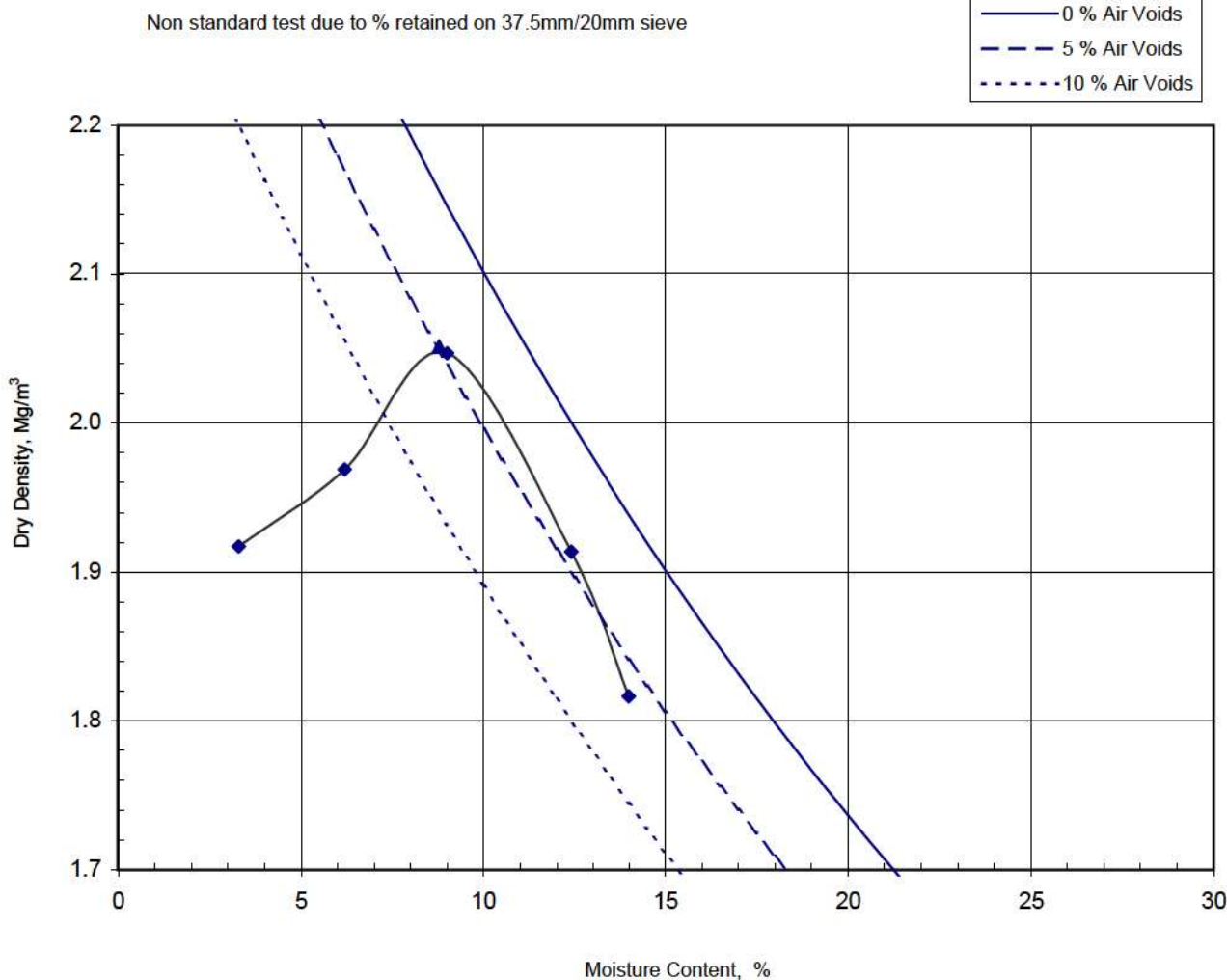
Contract No **B26845**

Hole TP138

Sample Ref

Depth (m) 0.60-0.60

Sample Type B



Non Engineering Description	Brown sandy clayey fine to coarse GRAVEL with cobbles
Preparation	Oven dried
Test Method	Vibrating Hammer
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 36
Mass Retained on 20.0 mm Sieve	% 57
Particle Density - Measured	Mg/m³ 2.66
Natural Moisture Content	% 13
Maximum Dry Density	Mg/m³ 2.05
Optimum Moisture Content	% 8.8

Originator

Checked & Approved

SK

CD  
05/08/2021

**Moisture Content / Dry Density Relationship**

BS1377:Part 4:1990 Clause 3.7



**TERRA TEK**

SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEY

Client Applied Geology Limited

Engineer

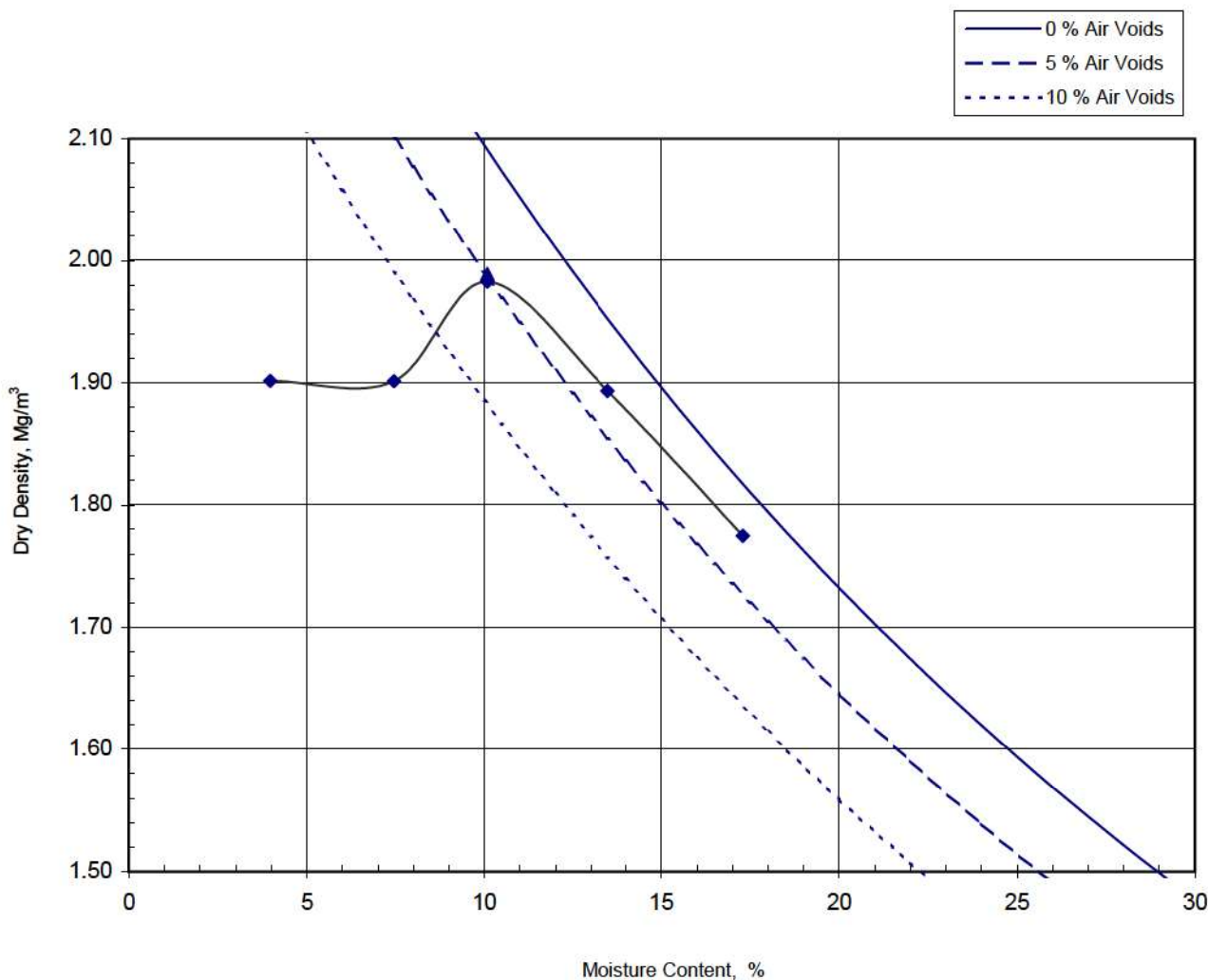
Contract No **B26845**

Hole TP15

Sample Ref

Depth (m) 0.70-0.70

Sample Type B



Non Engineering Description	Brown very clayey SAND and GRAVEL with cobbles. Gravel is fine to coarse
Preparation	Oven dried
Test Method	Vibrating Hammer
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 5
Mass Retained on 20.0 mm Sieve	% 12
Particle Density - Measured	Mg/m³ 2.65
Natural Moisture Content	% 16
Maximum Dry Density	Mg/m³ 1.99
Optimum Moisture Content	% 10.1

Originator

Checked &  
Approved

BJ

CD  
05/08/2021**Moisture Content / Dry Density Relationship**

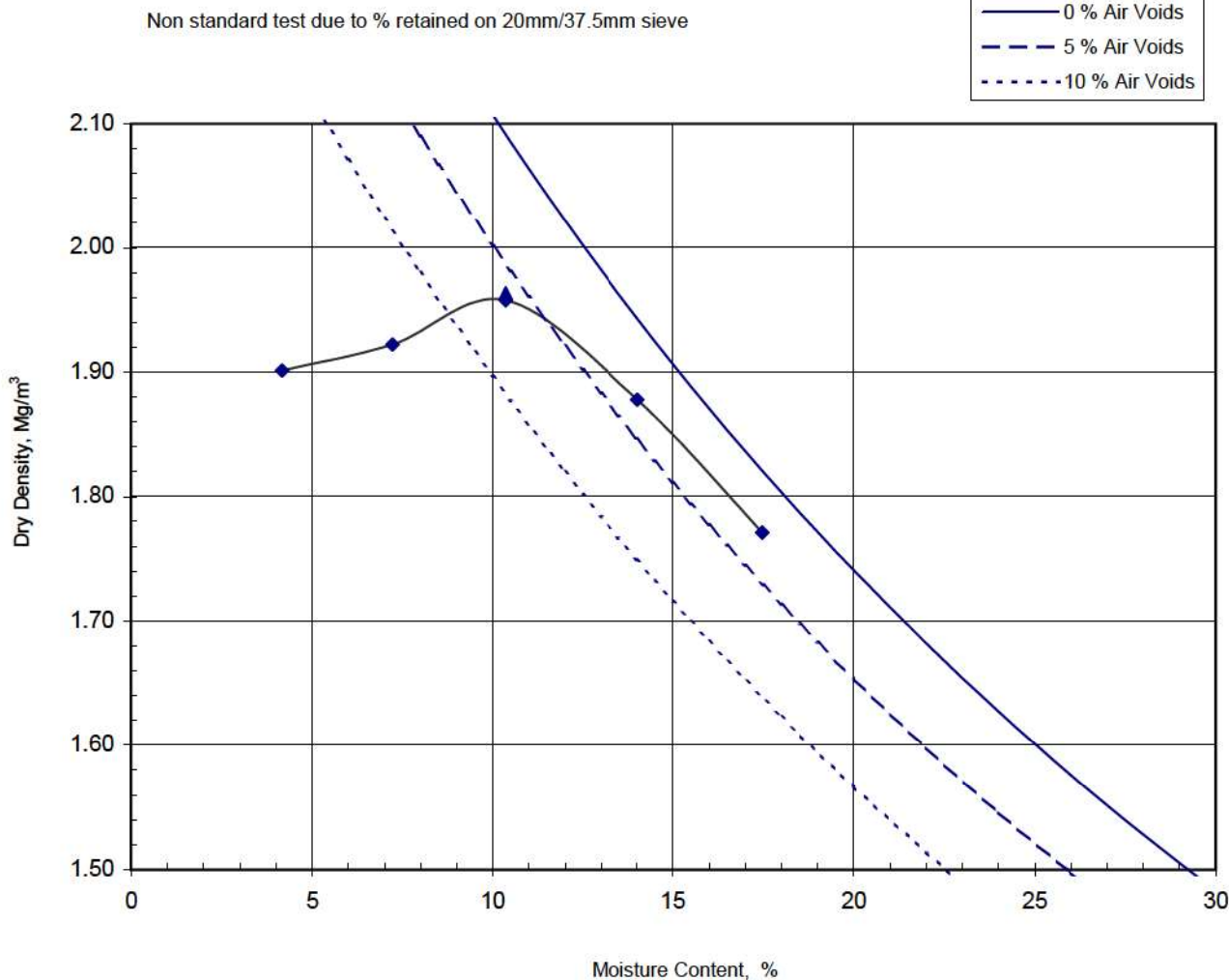
BS1377:Part 4:1990 Clause 3.7





Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP28
Sample Ref	
Depth (m)	0.50-0.60
Sample Type	B



Non Engineering Description	Brown sandy very clayey fine to coarse GRAVEL with cobbles
Preparation	Oven dried
Test Method	Vibrating Hammer
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 52
Mass Retained on 20.0 mm Sieve	% 67
Particle Density - Assumed	Mg/m³ 2.67
Natural Moisture Content	% 22
Maximum Dry Density	Mg/m³ 1.96
Optimum Moisture Content	% 10.4

Originator	Checked & Approved
BJ	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.7

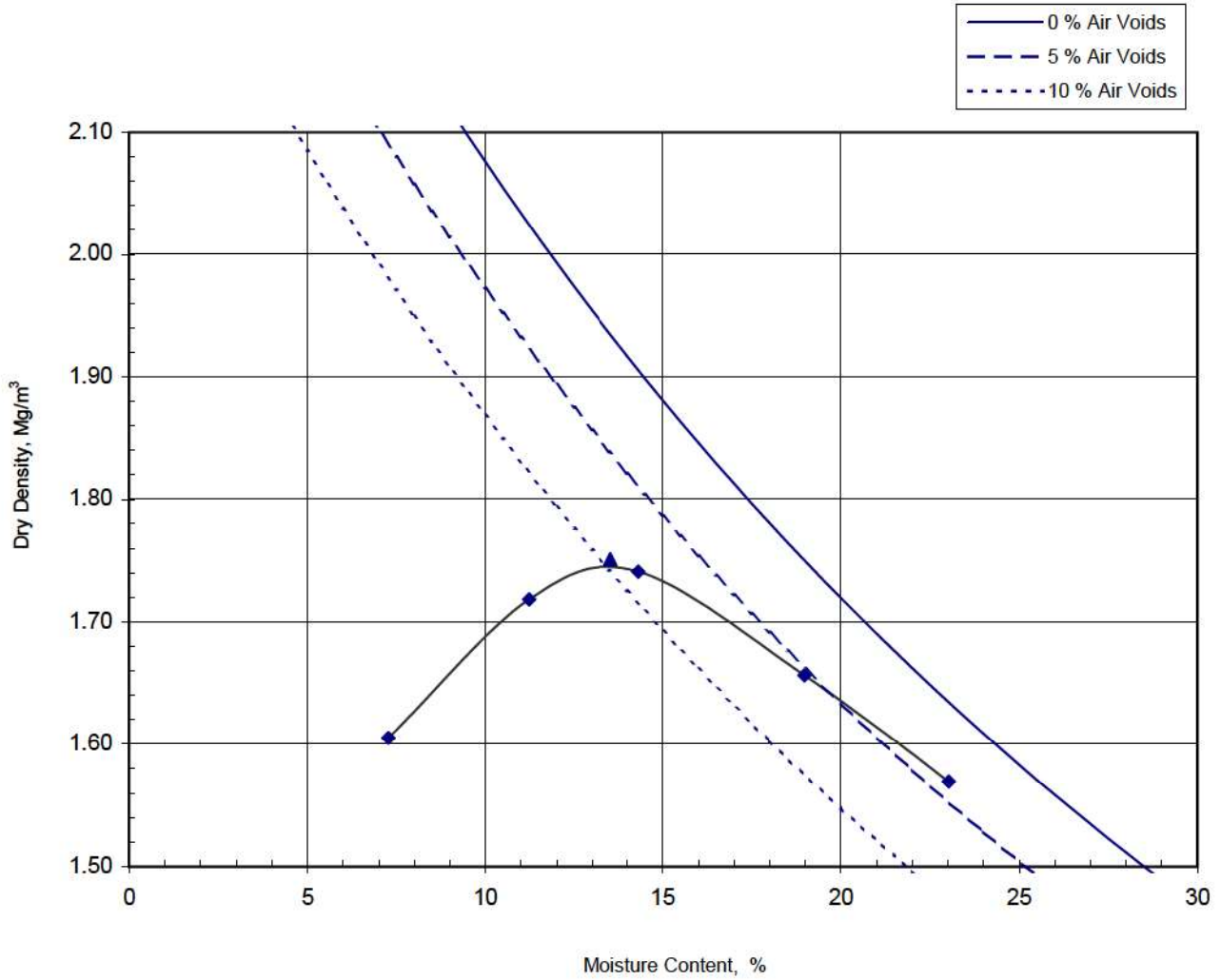




SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP60
Sample Ref	
Depth (m)	0.70-0.80
Sample Type	B



Non Engineering Description	Brown gravelly very sandy very silty CLAY. Gravel is fine to medium
Preparation	Oven dried
Test Method	4.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m³ 2.62
Natural Moisture Content	% 37
Maximum Dry Density	Mg/m³ 1.75
Optimum Moisture Content	% 13.5

Originator	Checked & Approved
SK	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.5



**TERRA TEK**

SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEY

Client Applied Geology Limited

Engineer

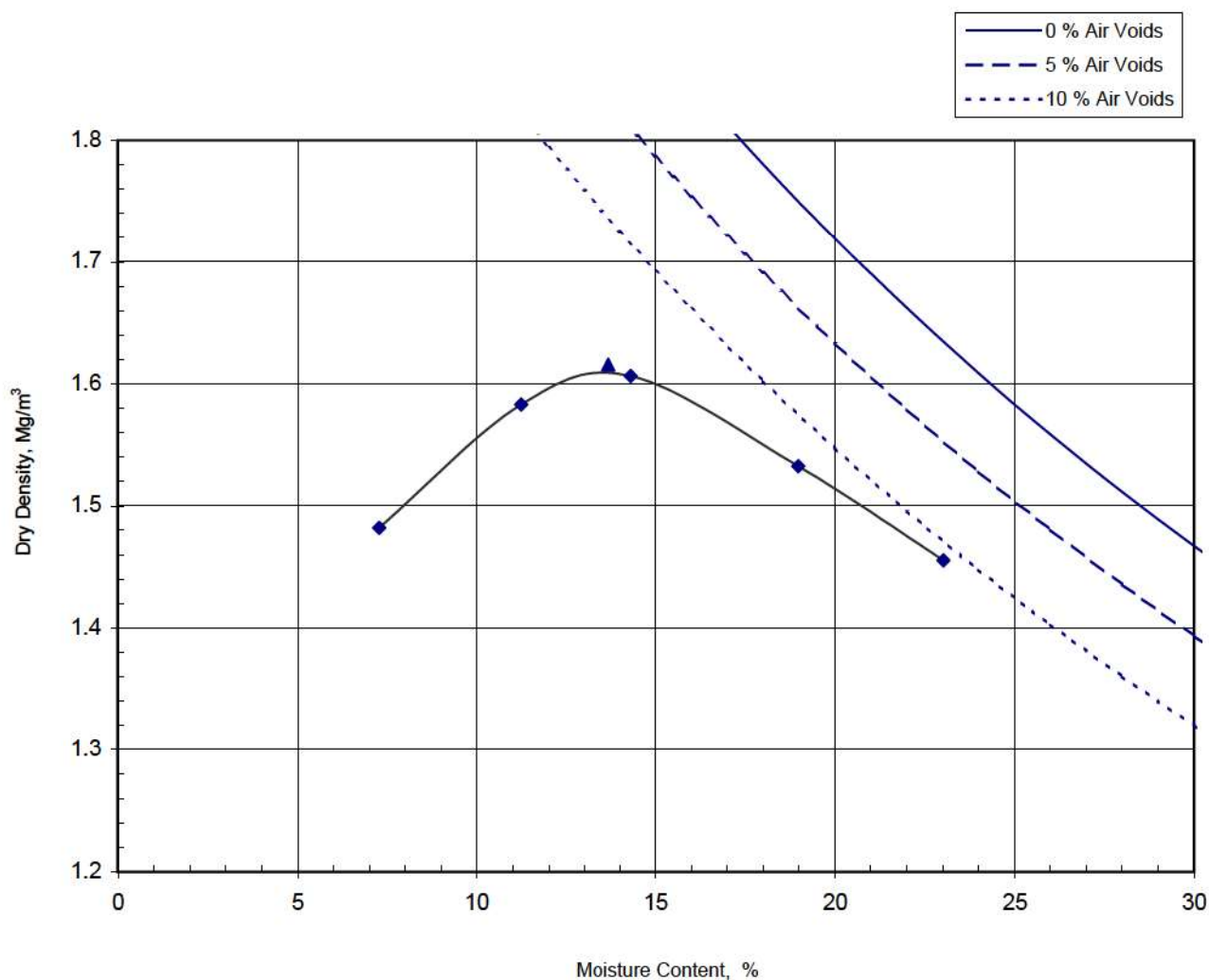
Contract No **B26845**

Hole TP60

Sample Ref

Depth (m) 0.70-0.80

Sample Type B



Non Engineering Description	Brown gravelly very sandy very silty CLAY. Gravel is fine to medium
Preparation	Oven dried
Test Method	2.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m <sup>3</sup> 2.62
Natural Moisture Content	% 37
Maximum Dry Density	Mg/m <sup>3</sup> 1.62
Optimum Moisture Content	% 13.7

Originator

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SK

CD  
05/08/2021**Moisture Content / Dry Density Relationship**

BS1377:Part 4:1990 Clause 3.3



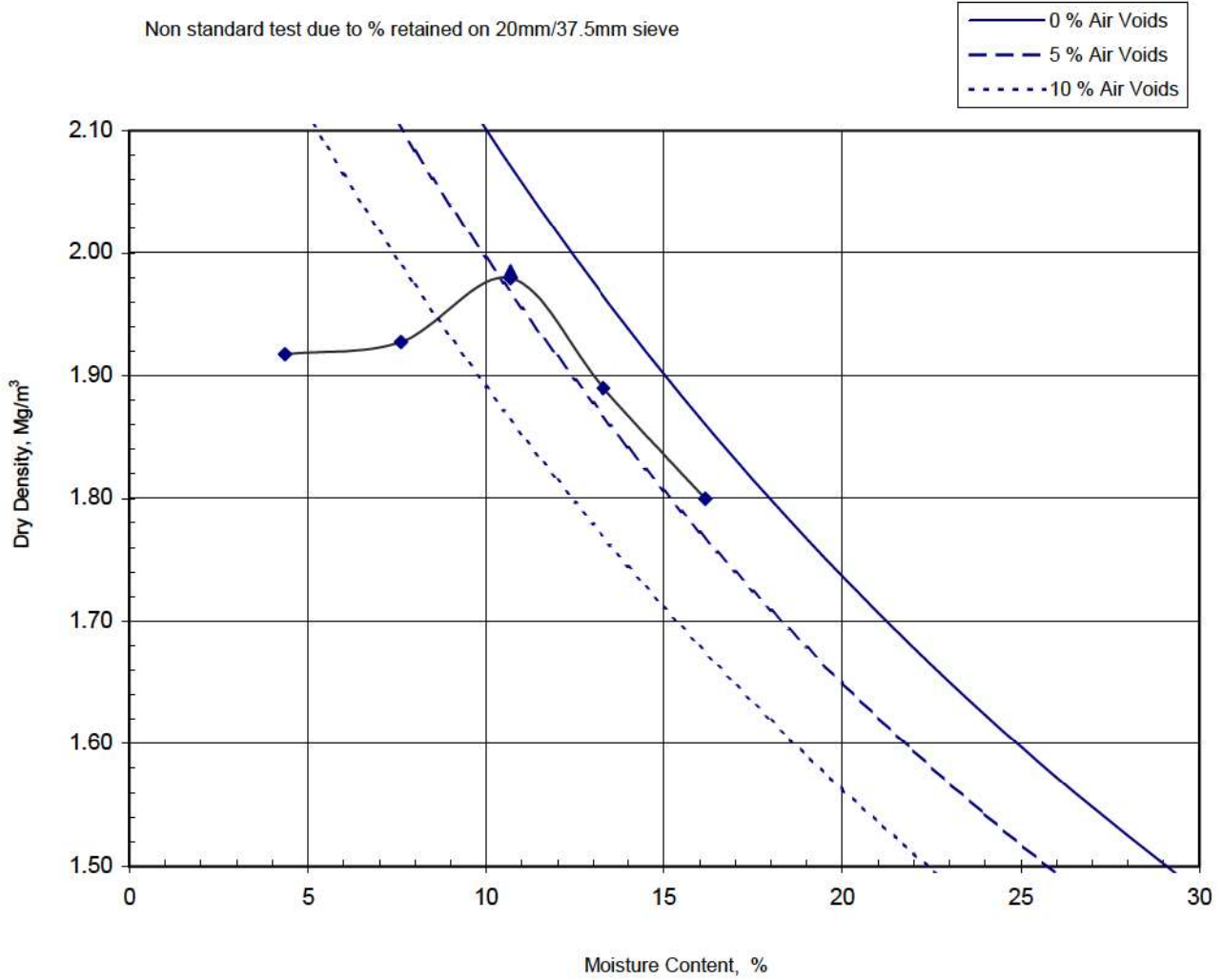




SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP75
Sample Ref	
Depth (m)	0.80-0.80
Sample Type	B



Non Engineering Description	Brown sandy clayey fine to coarse GRAVEL with cobbles
Preparation	Oven dried
Test Method	Vibrating Hammer
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 50
Mass Retained on 20.0 mm Sieve	% 65
Particle Density - Measured	Mg/m³ 2.66
Natural Moisture Content	% 15
Maximum Dry Density	Mg/m³ 1.98
Optimum Moisture Content	% 10.7

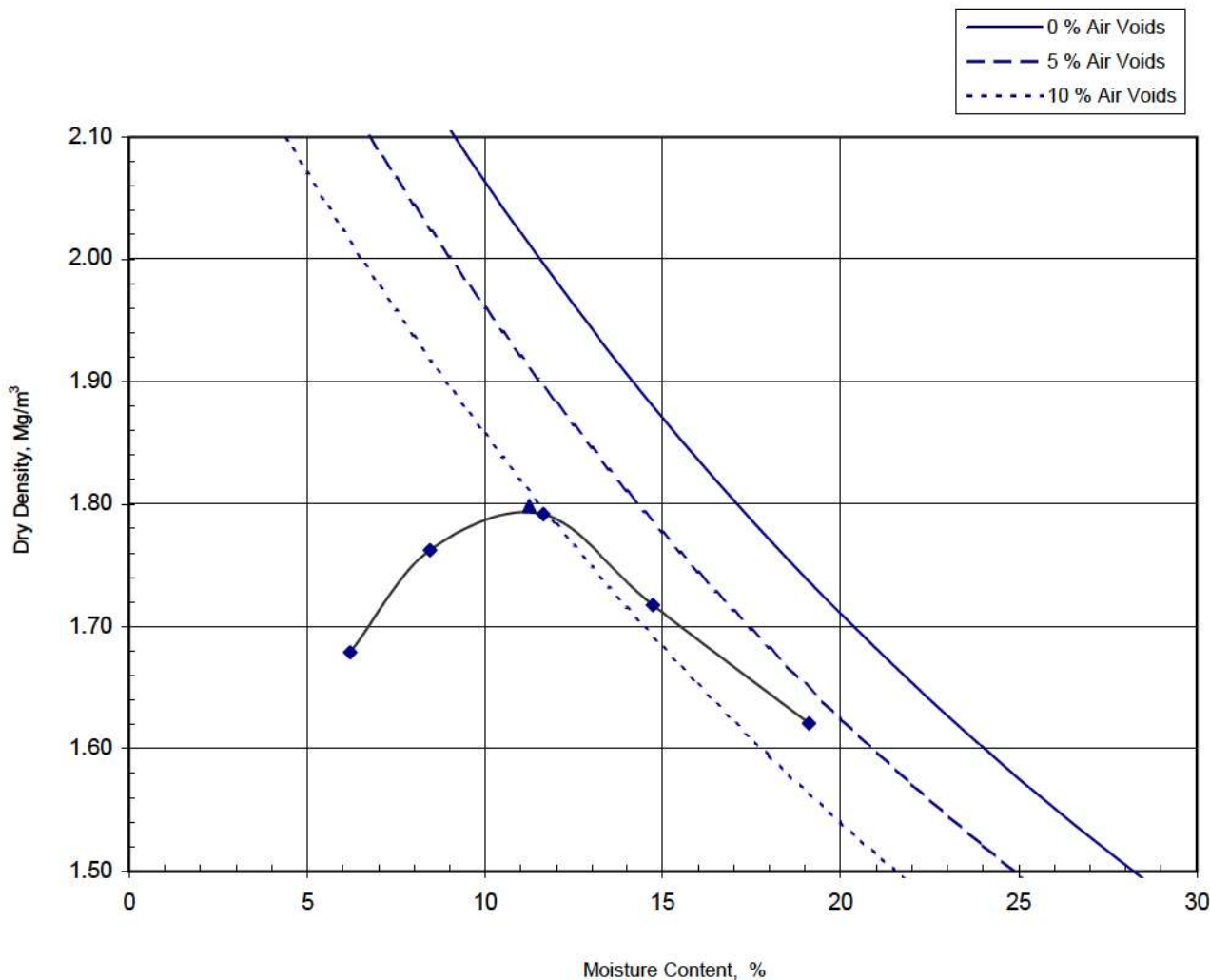
Originator	Checked & Approved
BJ	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.7



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole	TP79
Sample Ref	
Depth (m)	0.90-0.90
Sample Type	B



Non Engineering Description	Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine
Preparation	Oven dried
Test Method	4.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m³ 2.60
Natural Moisture Content	% 20
Maximum Dry Density	Mg/m³ 1.80
Optimum Moisture Content	% 11.2

Originator	Checked & Approved
SK	CD 05/08/2021

**Moisture Content / Dry Density Relationship**  
BS1377:Part 4:1990 Clause 3.5



**TERRA TEK**

SITE INVESTIGATION AND LABORATORY SERVICES

Site AG3268-21 LAND ADJACENT TO JUNCTION 10, M40,  
ARDLEY

Client Applied Geology Limited

Engineer

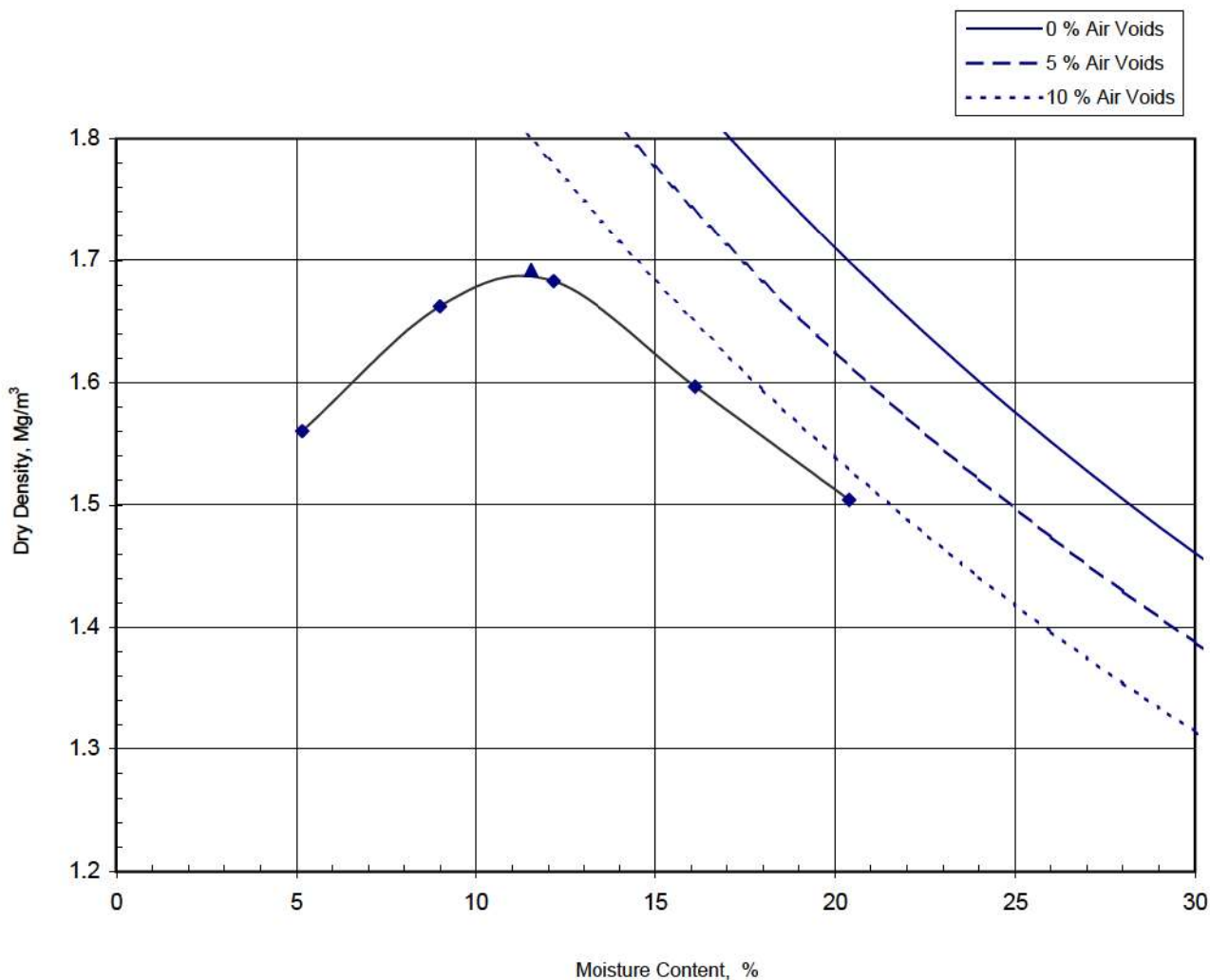
Contract No **B26845**

Hole TP79

Sample Ref

Depth (m) 0.90-0.90

Sample Type B



Non Engineering Description	Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine
Preparation	Oven dried
Test Method	2.5kg Rammer for soils with particles up to medium-gravel size
Samples Used	Single
Mass Retained on 37.5 mm Sieve	% 0
Mass Retained on 20.0 mm Sieve	% 0
Particle Density - Measured	Mg/m³ 2.60
Natural Moisture Content	% 20
Maximum Dry Density	Mg/m³ 1.69
Optimum Moisture Content	% 11.5

Originator

Checked &  
Approved

SK

CD  
05/08/2021**Moisture Content / Dry Density Relationship**

BS1377:Part 4:1990 Clause 3.3





1440 - CBR Lab TP108 00.90 B - B26845-782469.xls : Sample ID 782469



SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP108
Sample No	
Depth (m)	0.90-0.90
Sample Type	B

**Non Engineering**

**Description:** Brown sandy clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.12 Mg/m<sup>3</sup>

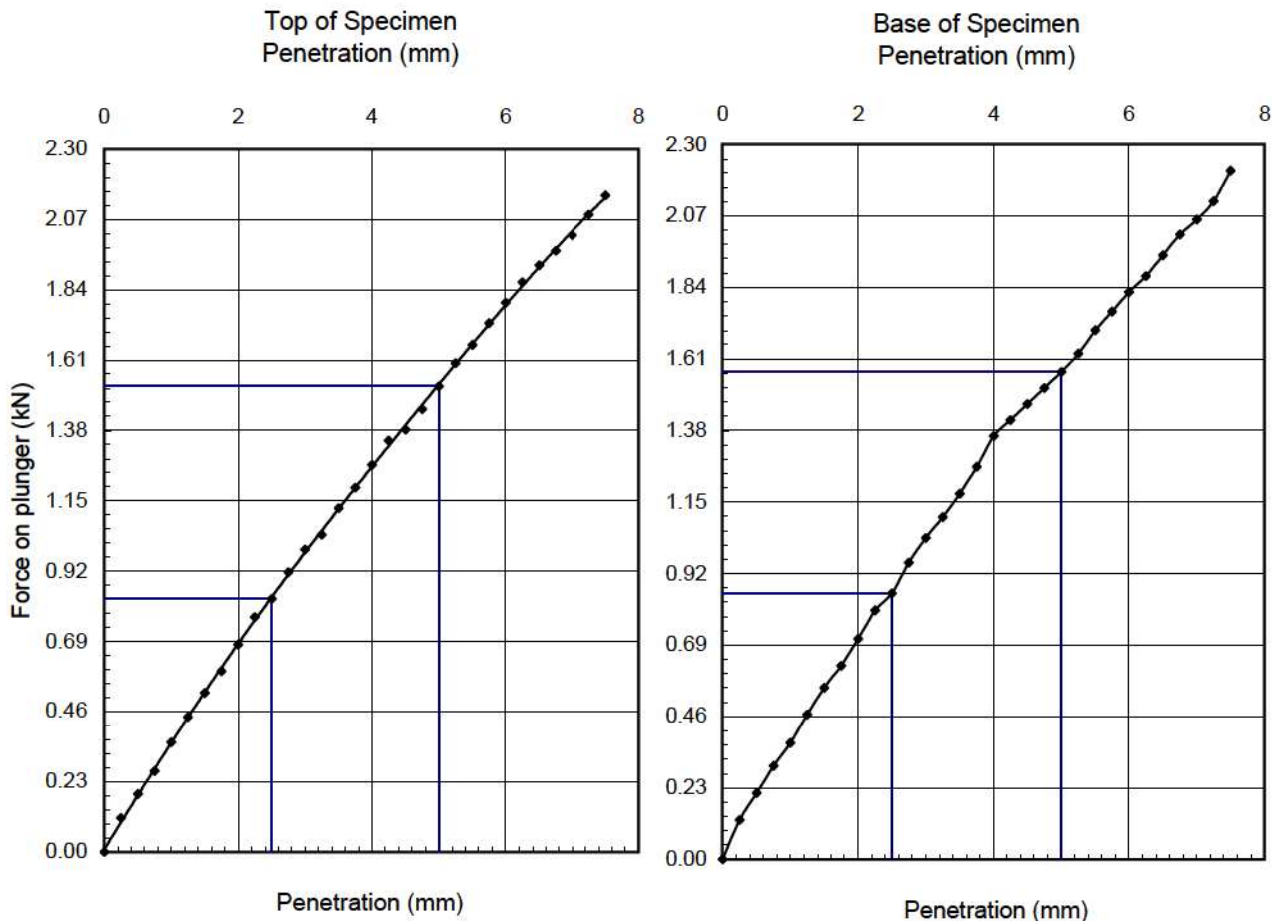
Specimen Dry Density 1.90 Mg/m<sup>3</sup>

Mass of sample > 20 mm 55.4 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	50	N	50	N
Moisture Content:	13	%	11	%
CBR Value:	7.6	%	7.8	%



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



62 Rochsolloch Road, Airdrie, ML6 9BG  
Lab Project No B26845 : 10/08/2021 19:07:39

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP125
Sample No	
Depth (m)	0.90-1.00
Sample Type	B

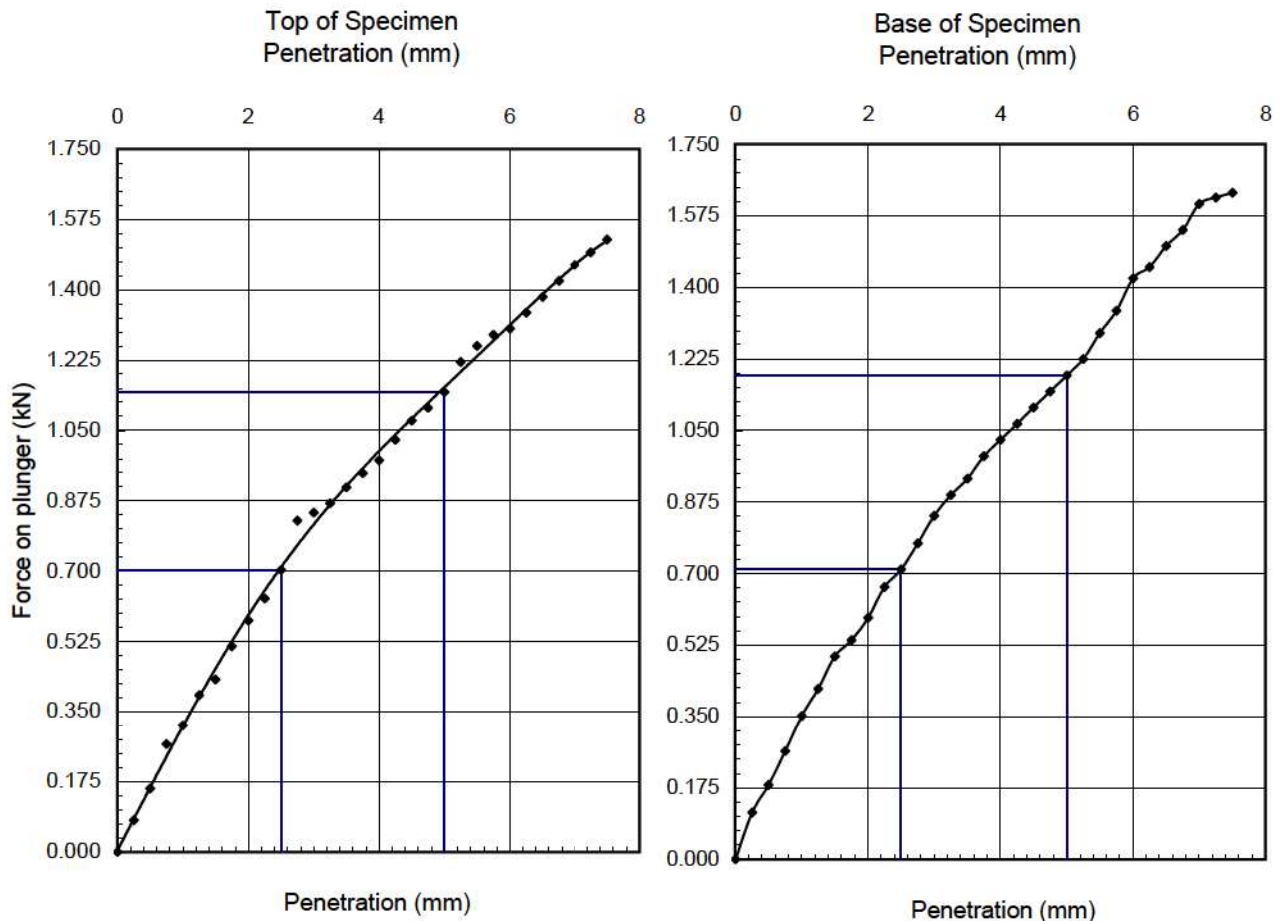
**Non Engineering**

**Description:** Brown slightly gravelly sandy CLAY with rootlets. Gravel is fine

**Preparation Details:**

Specimen was initially oven-dried  
 Compaction using 2.5kg compactive effort  
 Specimen Bulk Density 2.06 Mg/m<sup>3</sup>  
 Specimen Dry Density 1.77 Mg/m<sup>3</sup>  
 Mass of sample > 20 mm 0.0 %  
 Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	50 N	50 N
Moisture Content:	16 %	17 %
CBR Value:	5.7 %	5.9 %



Originator	Checked & Approved
SM	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
 BS1377 : Part 4 : Clause 7 : 1990



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP13
Sample No	
Depth (m)	0.70-0.70
Sample Type	BX2

**Non Engineering**

**Description:** Brown sandy clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.11 Mg/m<sup>3</sup>

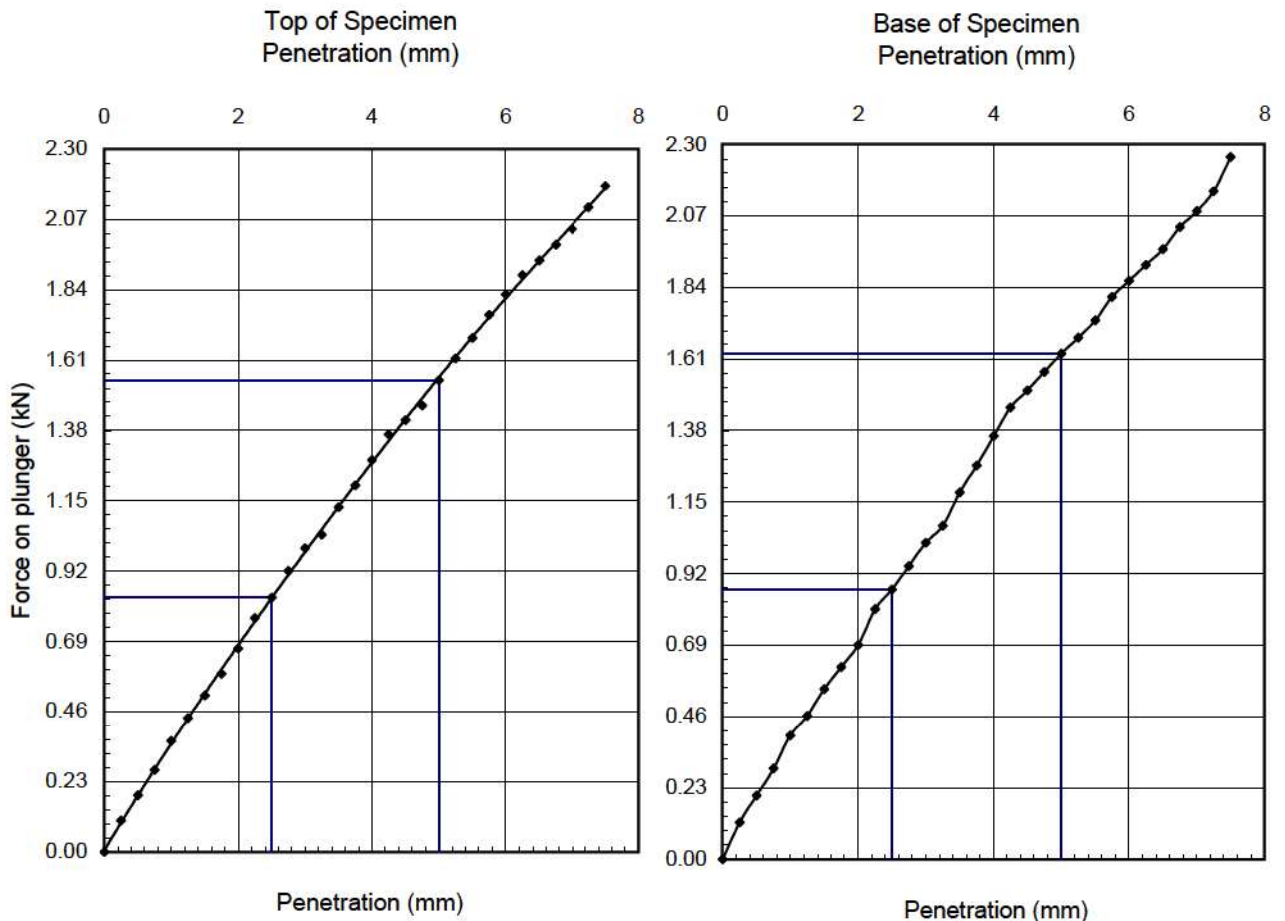
Specimen Dry Density 1.87 Mg/m<sup>3</sup>

Mass of sample > 20 mm 58.0 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	50	N	50	N
Moisture Content:	15	%	12	%
CBR Value:	7.7	%	8.1	%



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990





1440 - CBR Lab TP138 00.60 B - B26845-782498.xls : Sample ID 782498



SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP138
Sample No	
Depth (m)	0.60-0.60
Sample Type	B

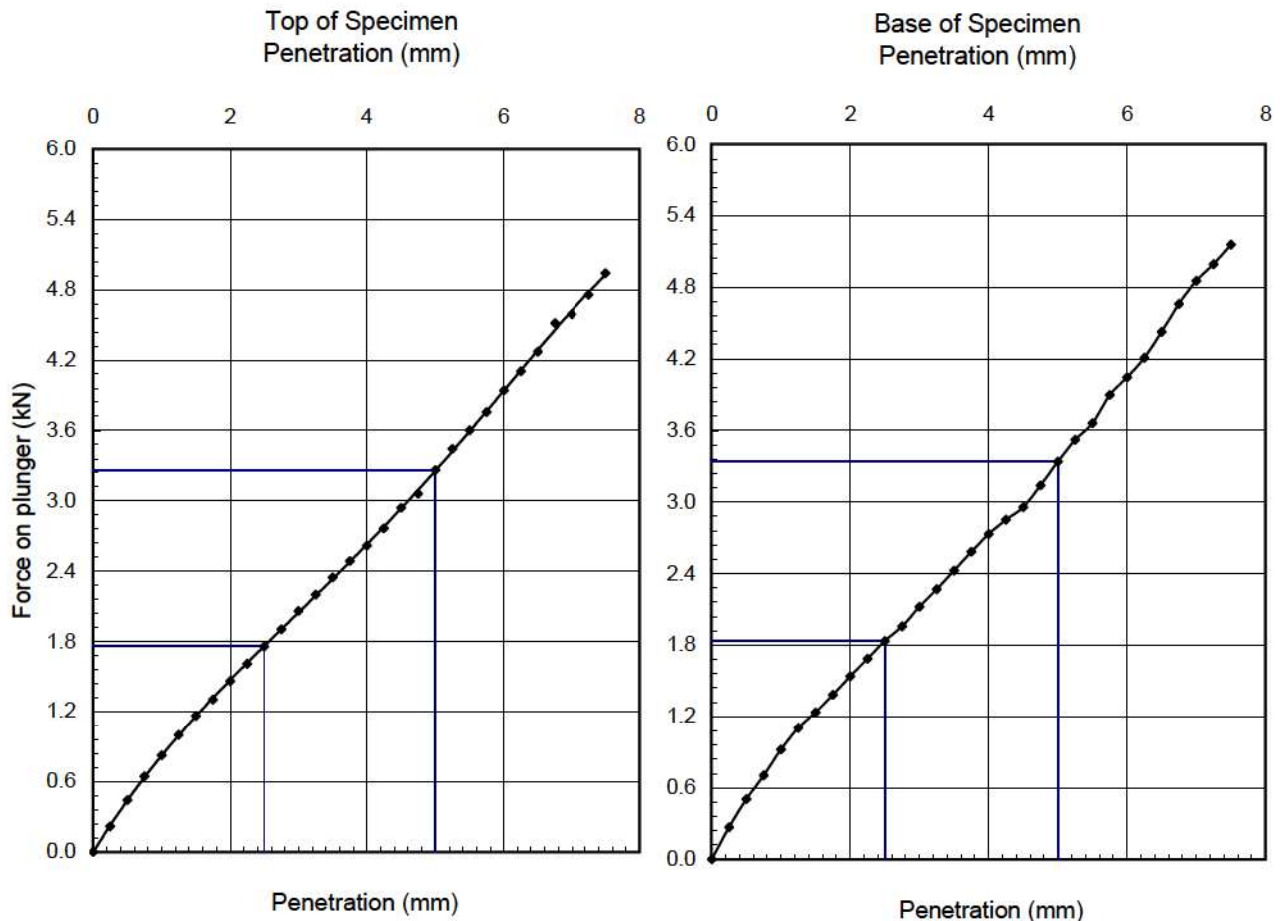
**Non Engineering**

**Description:** Brown sandy clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was initially oven-dried  
 Compaction using 2.5kg compactive effort  
 Specimen Bulk Density 2.20 Mg/m<sup>3</sup>  
 Specimen Dry Density 2.02 Mg/m<sup>3</sup>  
 Mass of sample > 20 mm 40.0 %  
 Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	50 N	50 N
Moisture Content:	8.5 %	9.1 %
CBR Value:	16.3 %	16.7 %



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
 BS1377 : Part 4 : Clause 7 : 1990



62 Rochsolloch Road, Airdrie, ML6 9BG  
 Lab Project No B26845 : 10/08/2021 19:07:54

1440 - CBR Lab TP142 00.60 B - B26845-782503.xls : Sample ID 782503



SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP142
Sample No	
Depth (m)	0.60-0.60
Sample Type	B

**Non Engineering**

**Description:** Brown silty very sandy very clayey fine to coarse GRAVEL with cobbles and rootlets

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

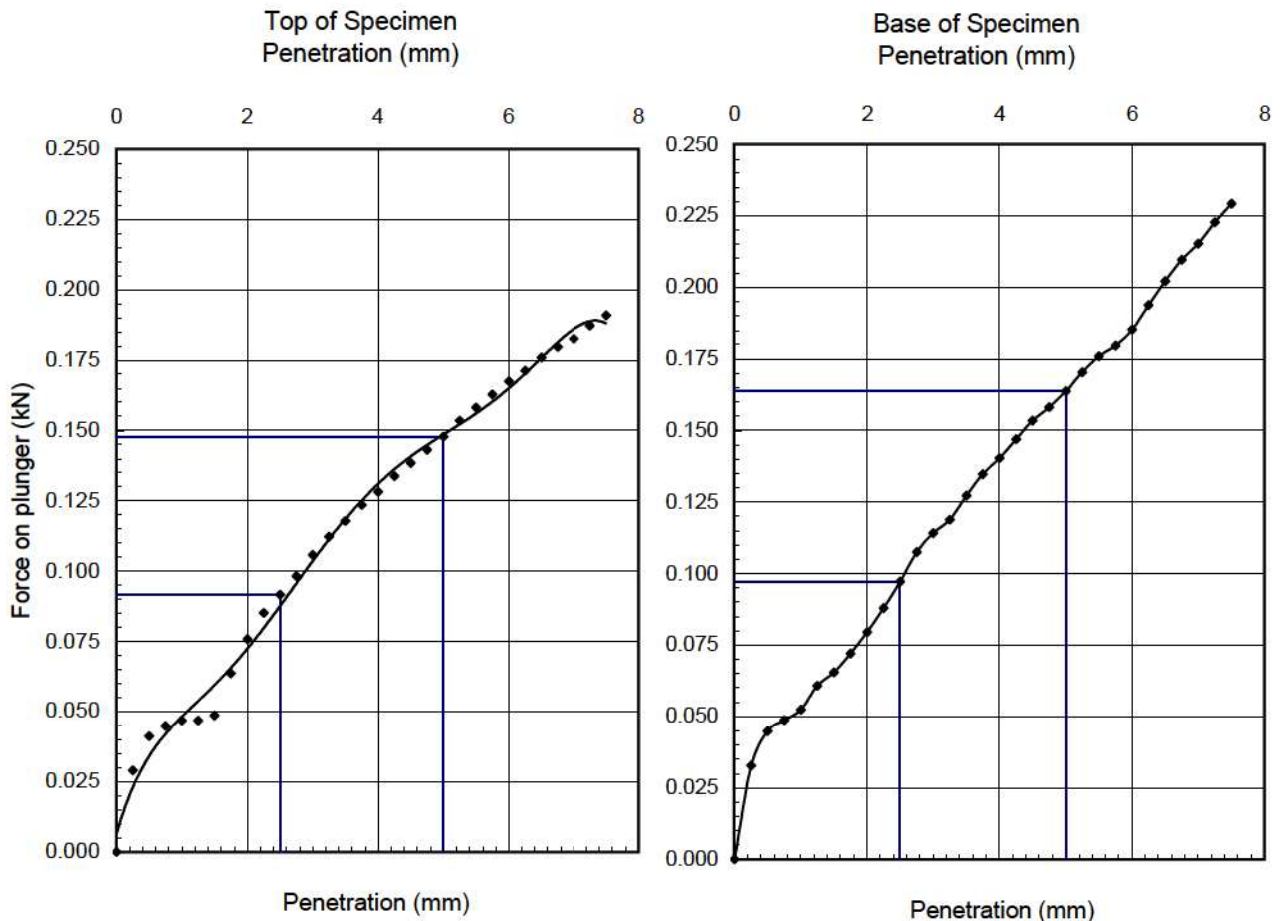
Specimen Bulk Density 1.91 Mg/m<sup>3</sup>

Specimen Dry Density 1.49 Mg/m<sup>3</sup>

Mass of sample > 20 mm 37.1 %

Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	10 N	10 N
Moisture Content:	28 %	29 %
CBR Value:	0.7 %	0.8 %



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



62 Rochsolloch Road, Airdrie, ML6 9BG  
Lab Project No B26845 : 10/08/2021 19:08:00

1440 - CBR Lab TP145 00.70 B - B26845-782506.xls : Sample ID 782506



SITE INVESTIGATION AND LABORATORY SERVICES

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP145
Sample No	
Depth (m)	0.70-0.70
Sample Type	B

**Non Engineering**

**Description:** Brown sandy clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.16 Mg/m<sup>3</sup>

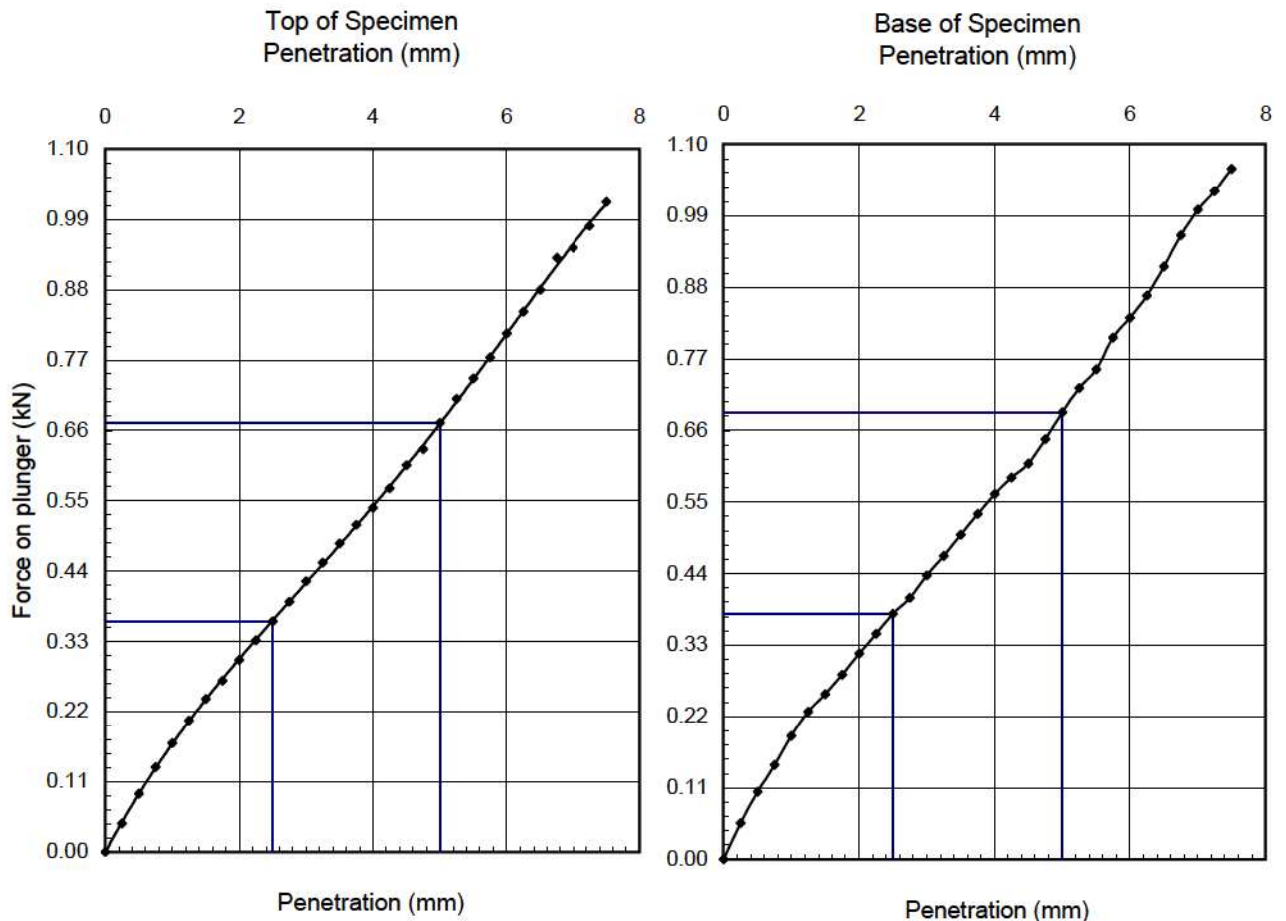
Specimen Dry Density 1.91 Mg/m<sup>3</sup>

Mass of sample > 20 mm 20.1 %

Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	50 N	50 N
Moisture Content:	13 %	13 %

CBR Value: 3.4 %



62 Rochsolloch Road, Airdrie, ML6 9BG  
Lab Project No B26845 : 10/08/2021 19:08:05

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990





Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP15
Sample No	
Depth (m)	0.70-0.70
Sample Type	B

**Non Engineering**

**Description:** Brown very clayey SAND and GRAVEL with cobbles. Gravel is fine to coarse

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.03 Mg/m<sup>3</sup>

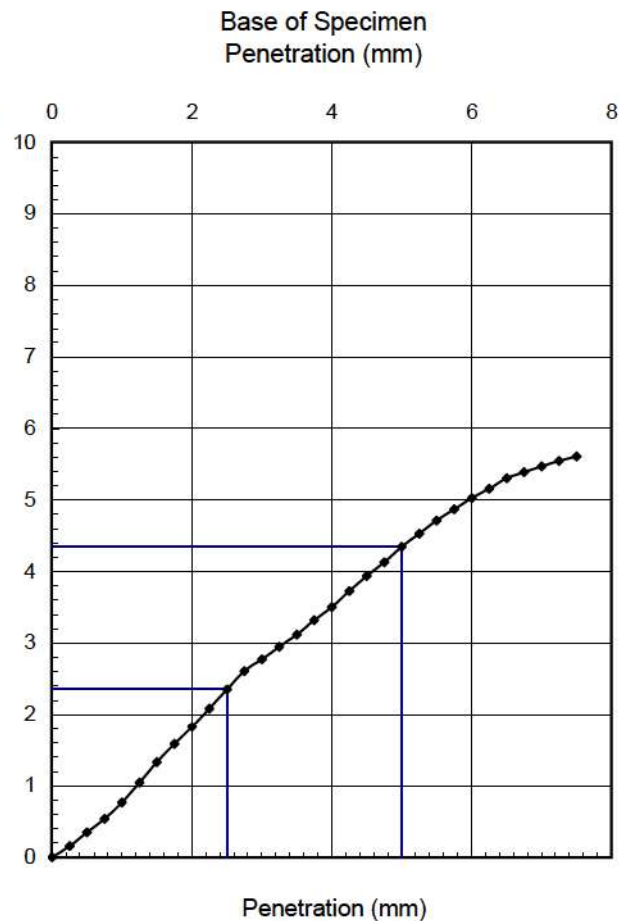
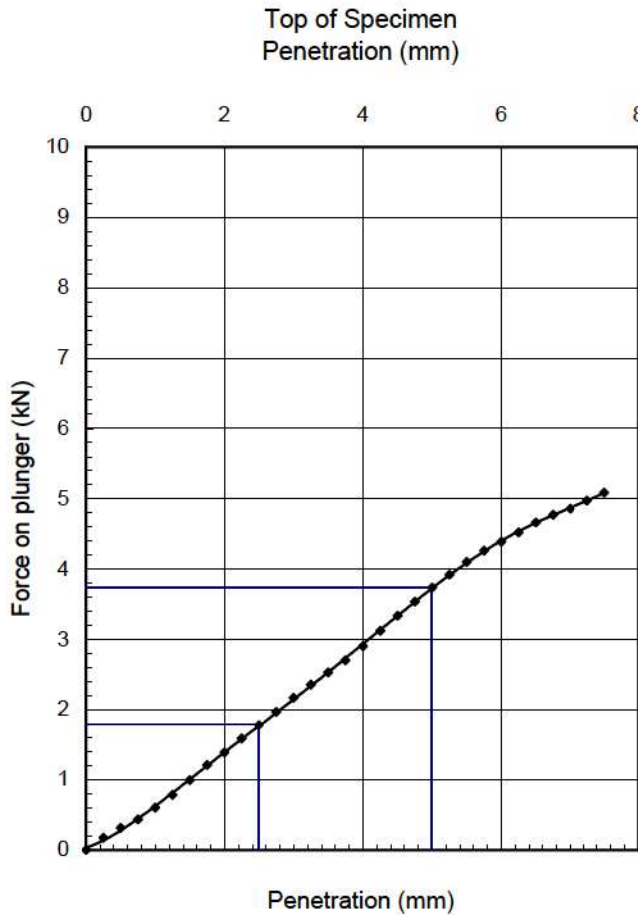
Specimen Dry Density 1.84 Mg/m<sup>3</sup>

Mass of sample > 20 mm 26.0 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	50	N	50	N
Moisture Content:	10.0	%	10	%
CBR Value:	18.7	%	21.8	%



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SM	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990





Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP2
Sample No	
Depth (m)	0.90-0.90
Sample Type	B

**Non Engineering**

**Description:** Brown very clayey SAND and GRAVEL with cobbles. Gravel is fine to coarse

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 1.91 Mg/m<sup>3</sup>

Specimen Dry Density 1.50 Mg/m<sup>3</sup>

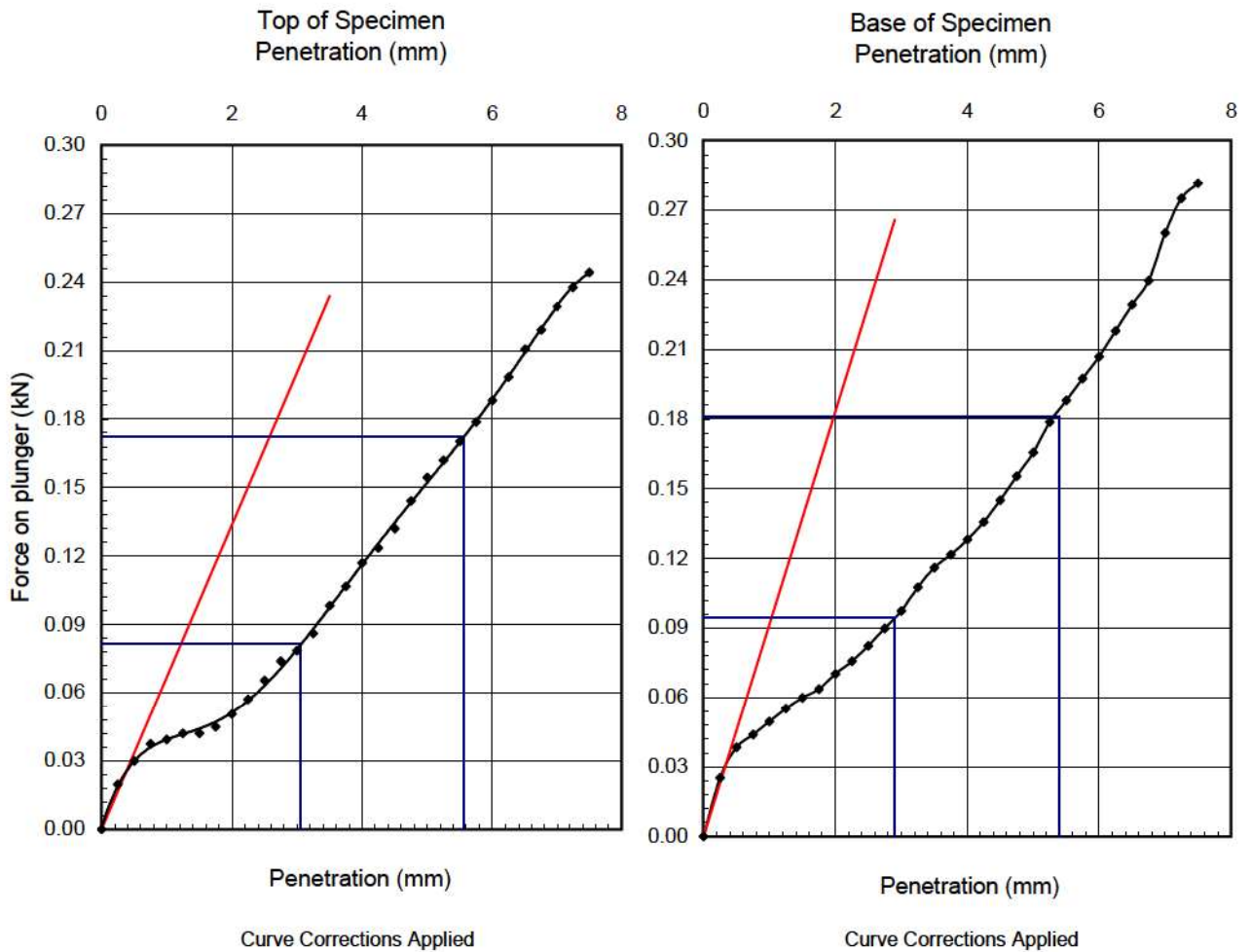
Mass of sample > 20 mm 21.3 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	10	N	10	N
Moisture Content:	26	%	28	%

CBR Value: 0.9 %



Originator	Checked & Approved
SK	CD 10/08/2021

Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP28
Sample No	
Depth (m)	0.50-0.60
Sample Type	B

**Non Engineering**

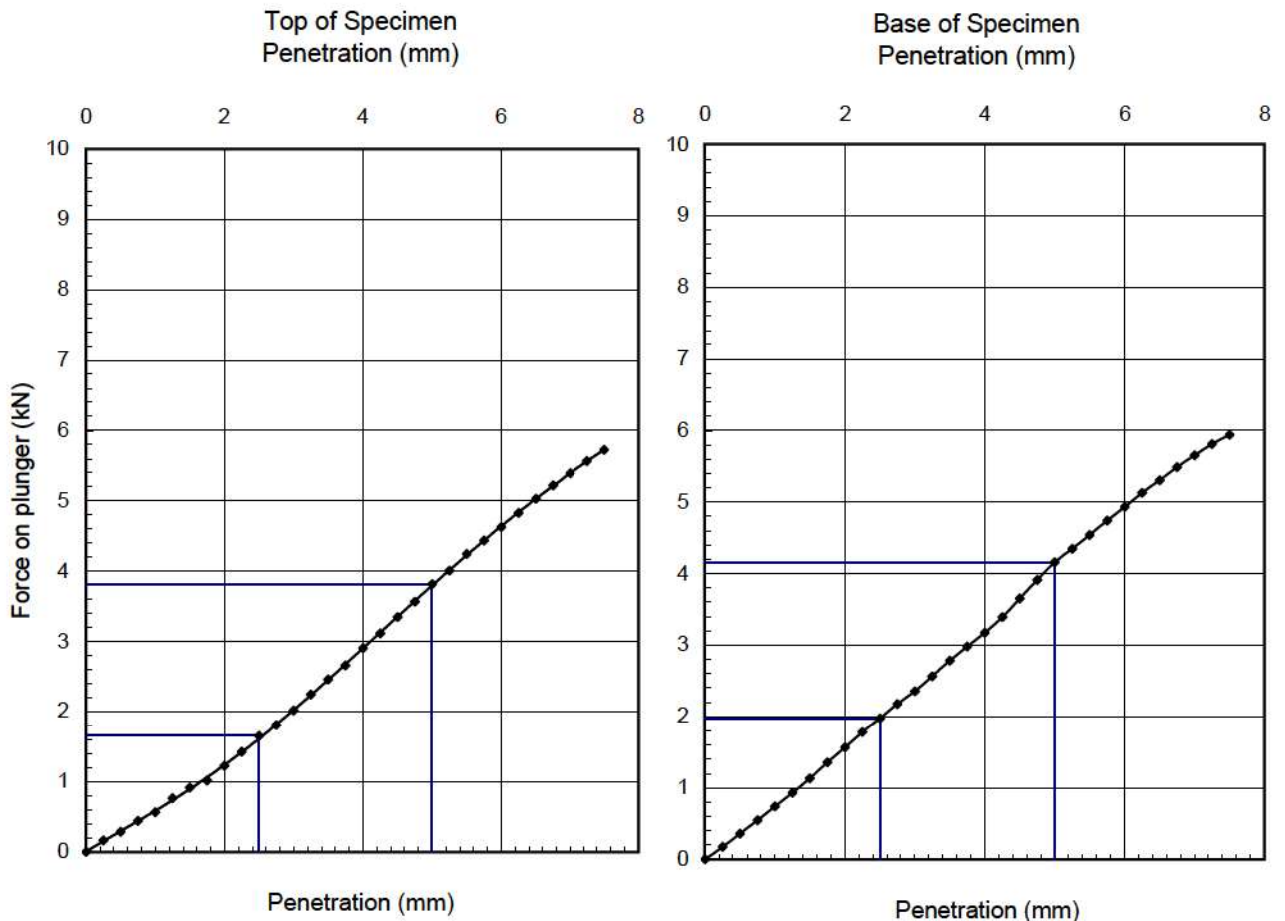
**Description:** Brown sandy very clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was initially air-dried  
 Compaction using 2.5kg compactive effort  
 Specimen Bulk Density 1.92 Mg/m<sup>3</sup>  
 Specimen Dry Density 1.74 Mg/m<sup>3</sup>  
 Mass of sample > 20 mm 32.4 %  
 Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	50 N	50 N
Moisture Content:	11 %	10 %

CBR Value: 19.1 % (Top)      20.8 % (Base)



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SM	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



1440 - CBR Lab TP31 00.70 B - B26845-782529.xls : Sample ID 782529



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP31
Sample No	
Depth (m)	0.70-0.80
Sample Type	B

**Non Engineering**

**Description:** Brown very gravelly very sandy CLAY. Gravel is fine to coarse

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.08 Mg/m<sup>3</sup>

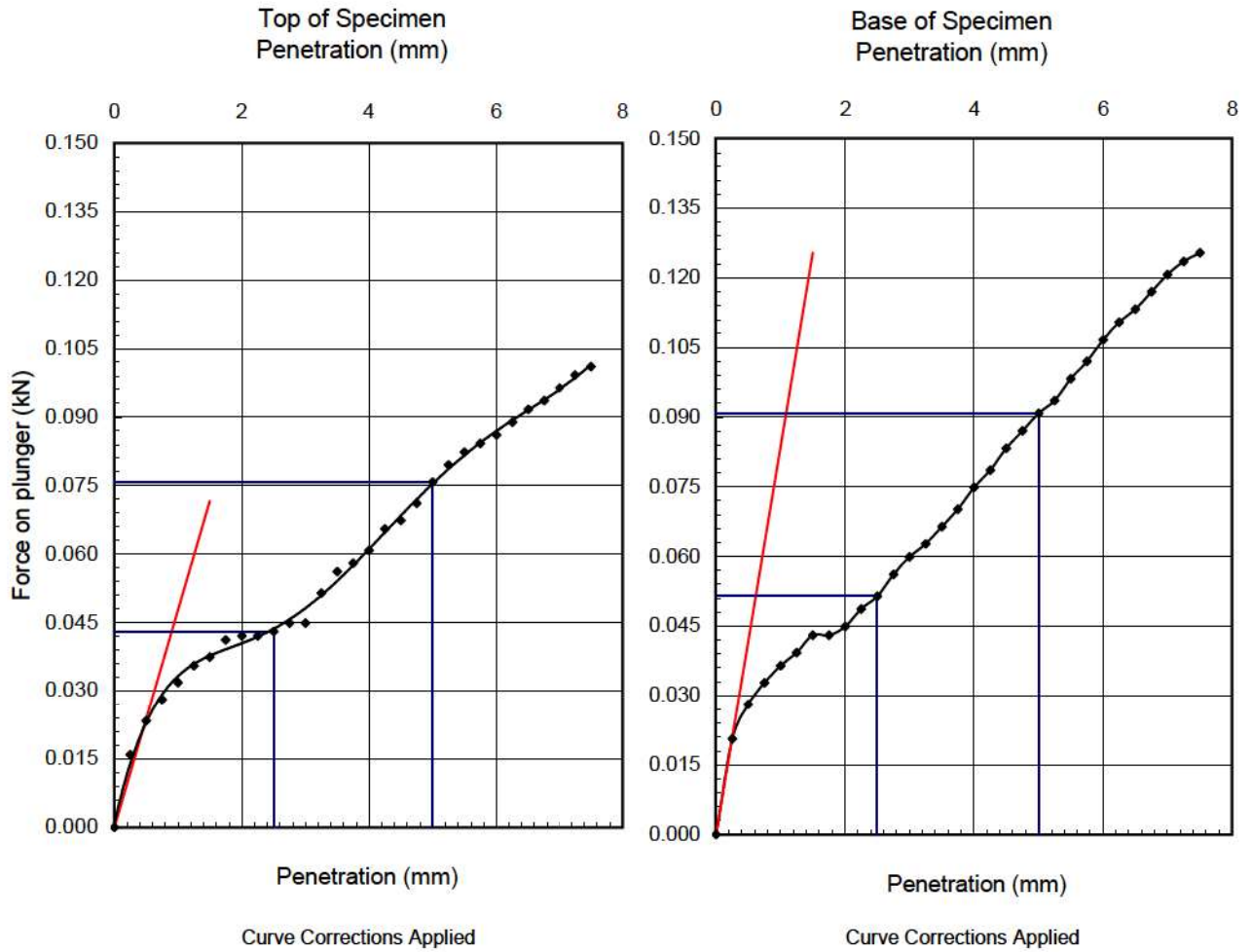
Specimen Dry Density 1.76 Mg/m<sup>3</sup>

Mass of sample > 20 mm 26.2 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	10	N	10	N
Moisture Content:	18	%	18	%
CBR Value:	0.4	%	0.5	%



**Non standard test due to % retained on 20mm sieve**

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



62 Rochsolloch Road, Airdrie, ML6 9BG  
Lab Project No B26845 : 10/08/2021 19:08:25



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP37
Sample No	
Depth (m)	0.40-0.50
Sample Type	B

**Non Engineering**

**Description:** Brown gravelly very sandy CLAY. Gravel is fine to coarse

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 0.44 Mg/m<sup>3</sup>

Specimen Dry Density 0.38 Mg/m<sup>3</sup>

Mass of sample > 20 mm 14.3 %

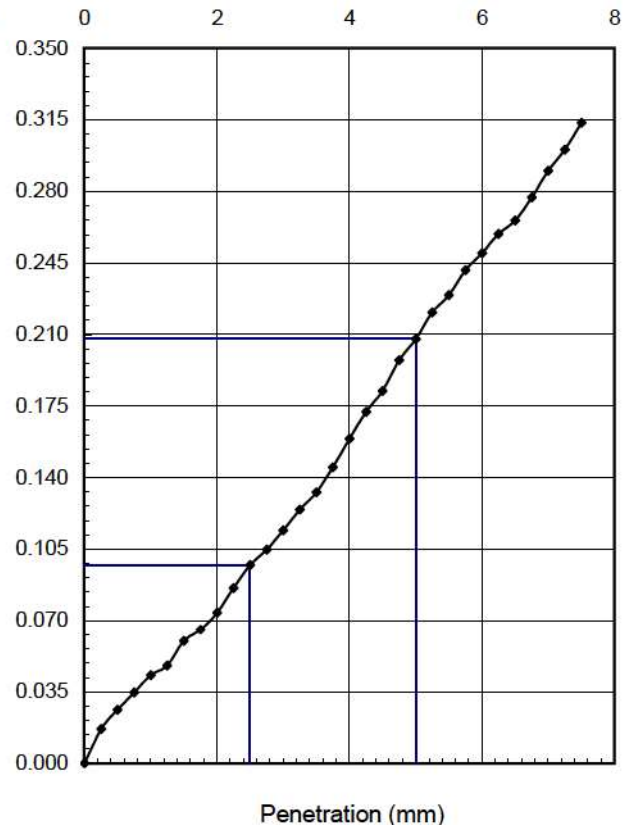
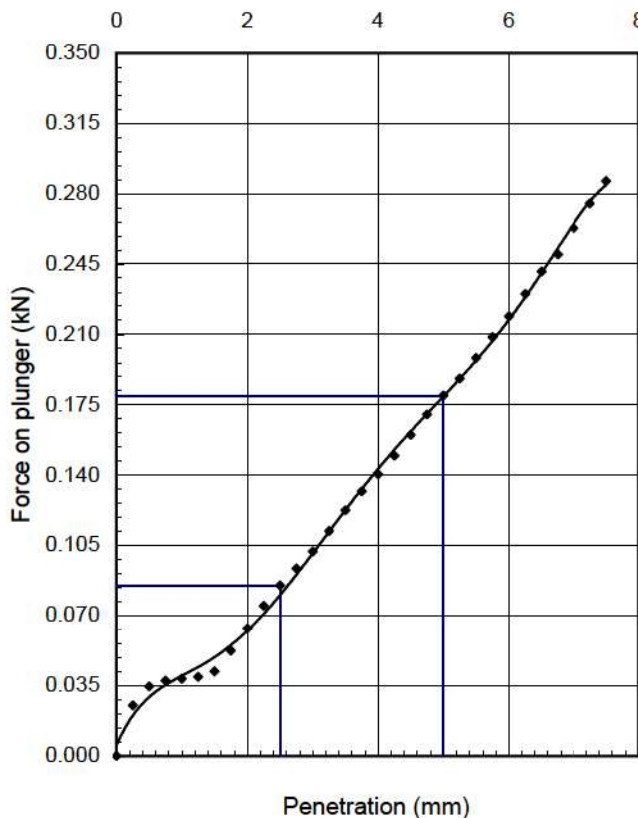
Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	10	N	10	N
Moisture Content:	16	%	17	%
CBR Value:	0.9	%	1.0	%

Top of Specimen Penetration (mm)

Base of Specimen Penetration (mm)



Originator	Checked & Approved
SK	CD 10/08/2021



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP44
Sample No	
Depth (m)	0.40-0.50
Sample Type	B

**Non Engineering**

**Description:** Brown very sandy very clayey fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.16 Mg/m<sup>3</sup>

Specimen Dry Density 1.92 Mg/m<sup>3</sup>

Mass of sample > 20 mm 29.3 %

Specimen Unsoaked

**Test Details:**

Surcharge: 2.0 kg

Seating Load: 50 N

Moisture Content: 13 %

**Base**

2.0 kg

50 N

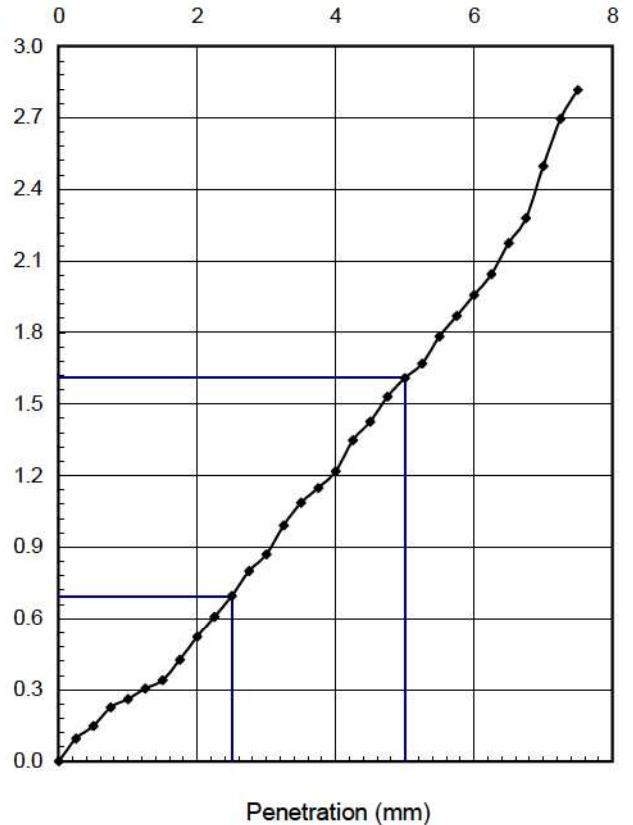
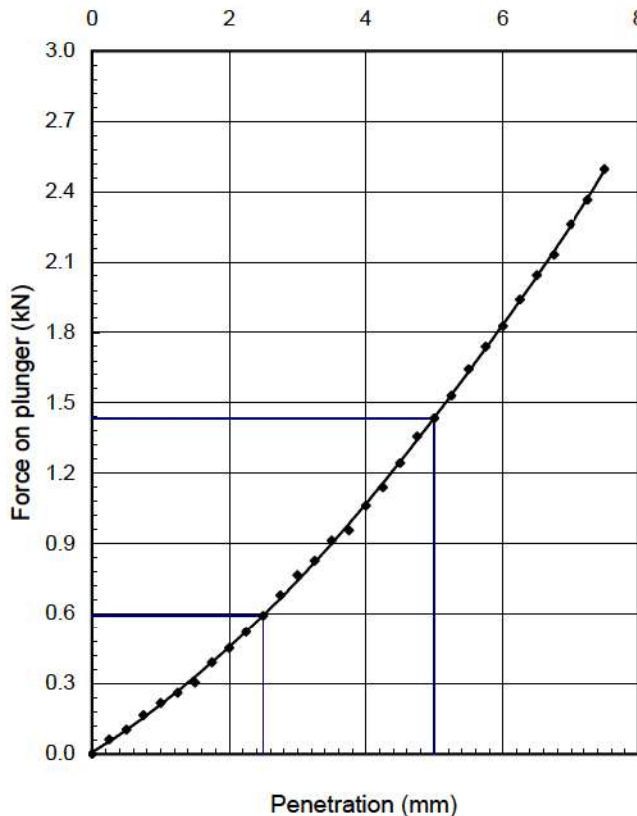
12 %

CBR Value: 7.2 %

8.0 %

Top of Specimen  
Penetration (mm)

Base of Specimen  
Penetration (mm)



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP48
Sample No	
Depth (m)	0.50-0.60
Sample Type	D

**Non Engineering**

**Description:** Brown clayey very sandy fine to coarse GRAVEL

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.02 Mg/m<sup>3</sup>

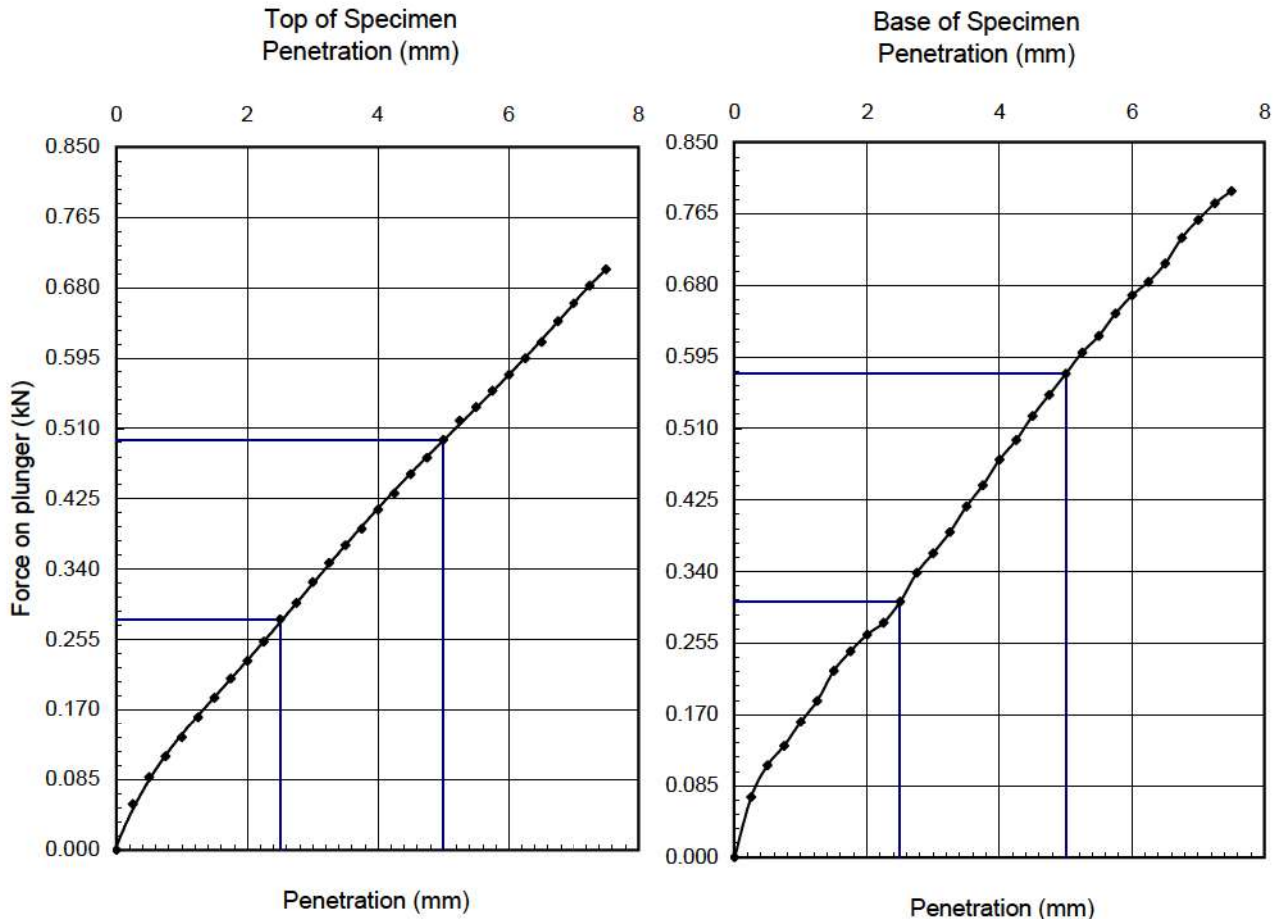
Specimen Dry Density 1.70 Mg/m<sup>3</sup>

Mass of sample > 20 mm 42.0 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	50	N	50	N
Moisture Content:	18	%	20	%
CBR Value:	2.5	%	2.9	%



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
BS1377 : Part 4 : Clause 7 : 1990



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP56
Sample No	
Depth (m)	0.50-0.50
Sample Type	B

**Non Engineering**

**Description:** Brown gravelly very sandy CLAY. Gravel is fine to coarse

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

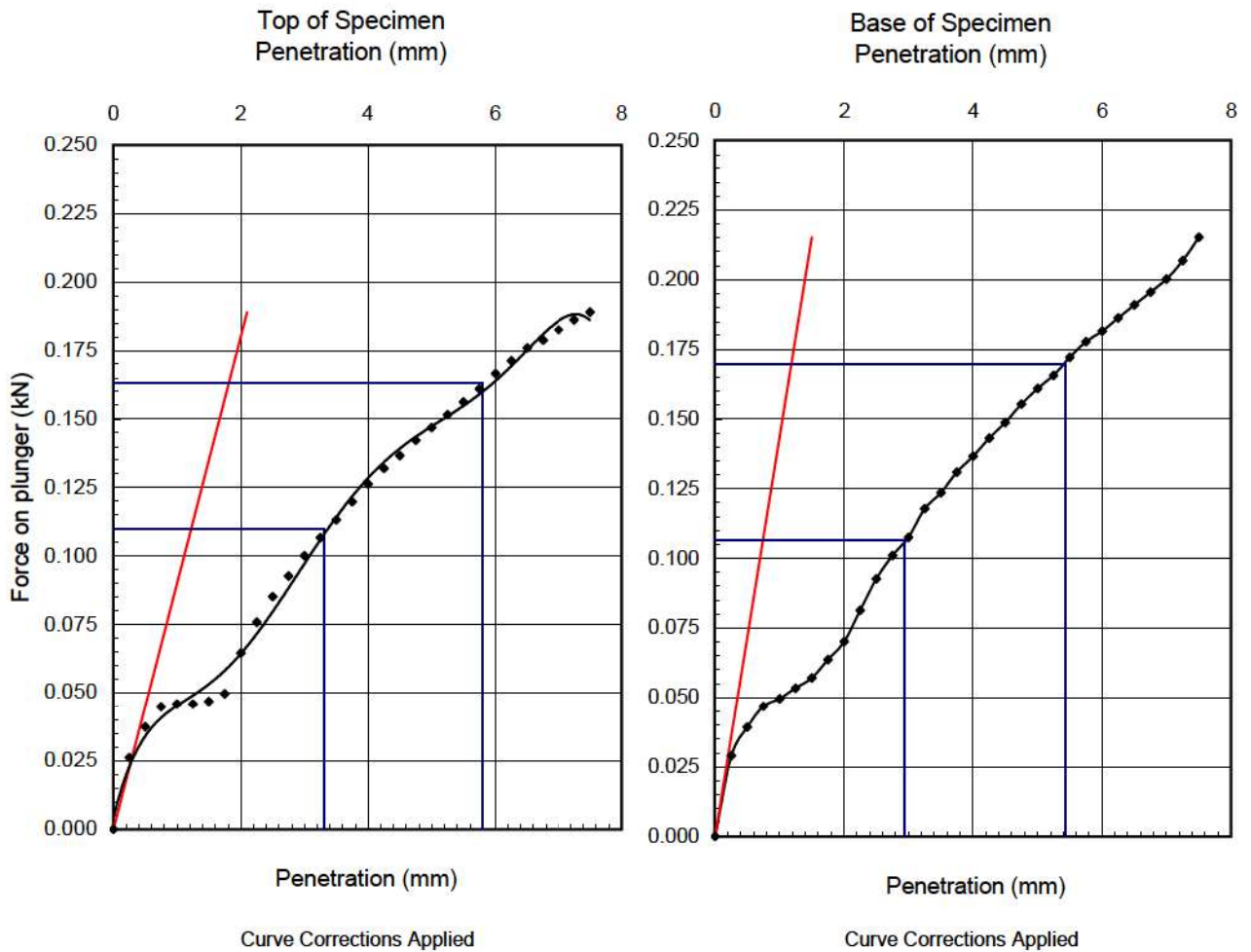
Specimen Bulk Density 1.95 Mg/m<sup>3</sup>

Specimen Dry Density 1.62 Mg/m<sup>3</sup>

Mass of sample > 20 mm 2.3 %

Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	10 N	10 N
Moisture Content:	20 %	20 %
CBR Value:	0.8 %	0.8 %



Originator	Checked & Approved
SK	CD 10/08/2021



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP60
Sample No	
Depth (m)	0.70-0.80
Sample Type	B

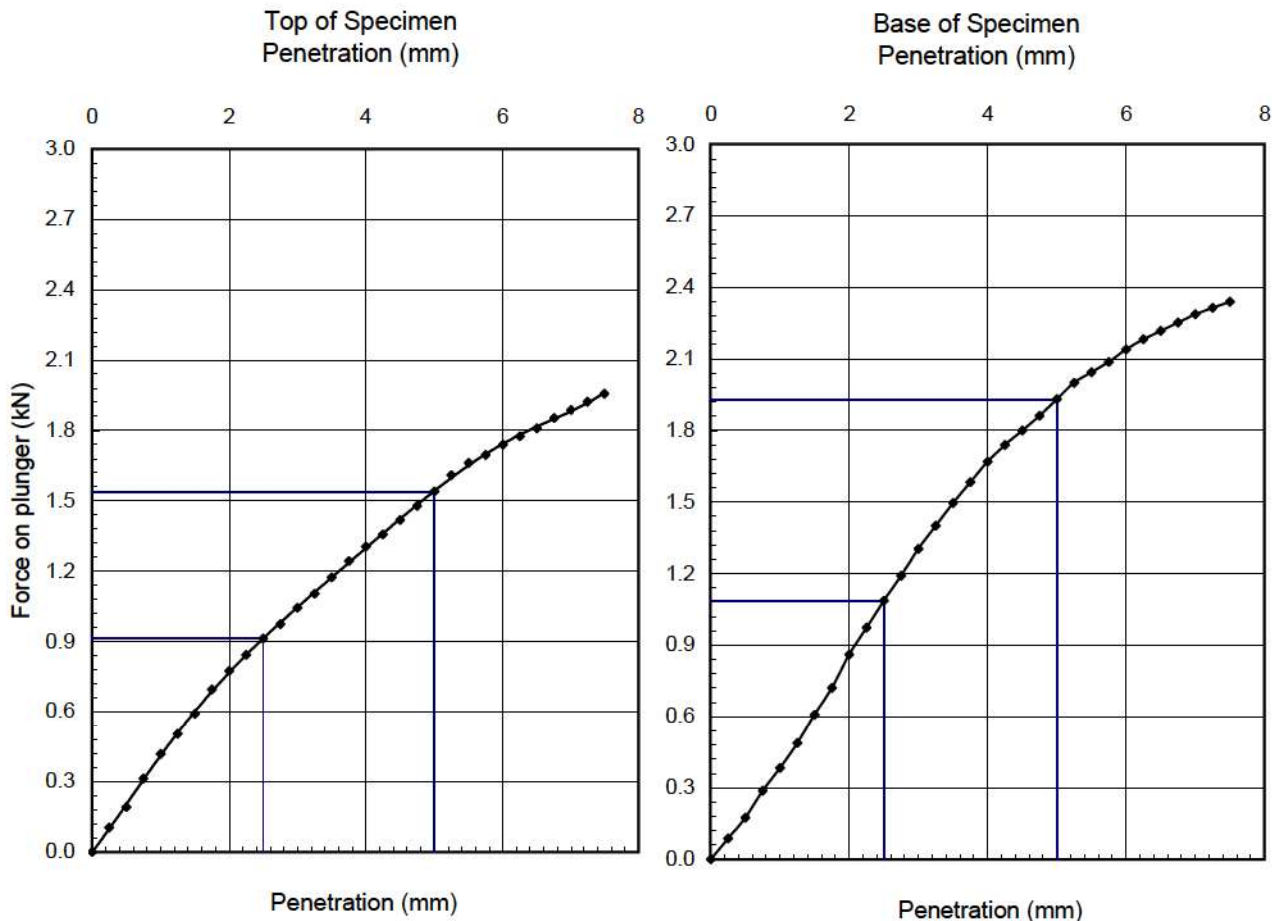
**Non Engineering**

**Description:** Brown gravelly very sandy very silty CLAY. Gravel is fine to medium

**Preparation Details:**

Specimen was initially oven-dried  
 Compaction using 2.5kg compactive effort  
 Specimen Bulk Density 1.98 Mg/m<sup>3</sup>  
 Specimen Dry Density 1.74 Mg/m<sup>3</sup>  
 Mass of sample > 20 mm 0.0 %  
 Specimen Unsoaked

Test Details:	Top	Base
Surcharge:	2.0 kg	2.0 kg
Seating Load:	50 N	50 N
Moisture Content:	14 %	14 %
CBR Value:	7.7 %	9.7 %



Originator	Checked & Approved
SM	CD 10/08/2021



Site	AG3268-21 LAND ADJACENT TO JUNCTION 10, M40, ARDLEY
Client	Applied Geology Limited
Engineer	

Contract No	<b>B26845</b>
Hole ID	TP62
Sample No	
Depth (m)	0.50-0.50
Sample Type	B

**Non Engineering**

**Description:** Brown sandy silty fine to coarse GRAVEL with cobbles

**Preparation Details:**

Specimen was prepared at Natural Moisture Content

Compaction using 2.5kg compactive effort

Specimen Bulk Density 2.03 Mg/m<sup>3</sup>

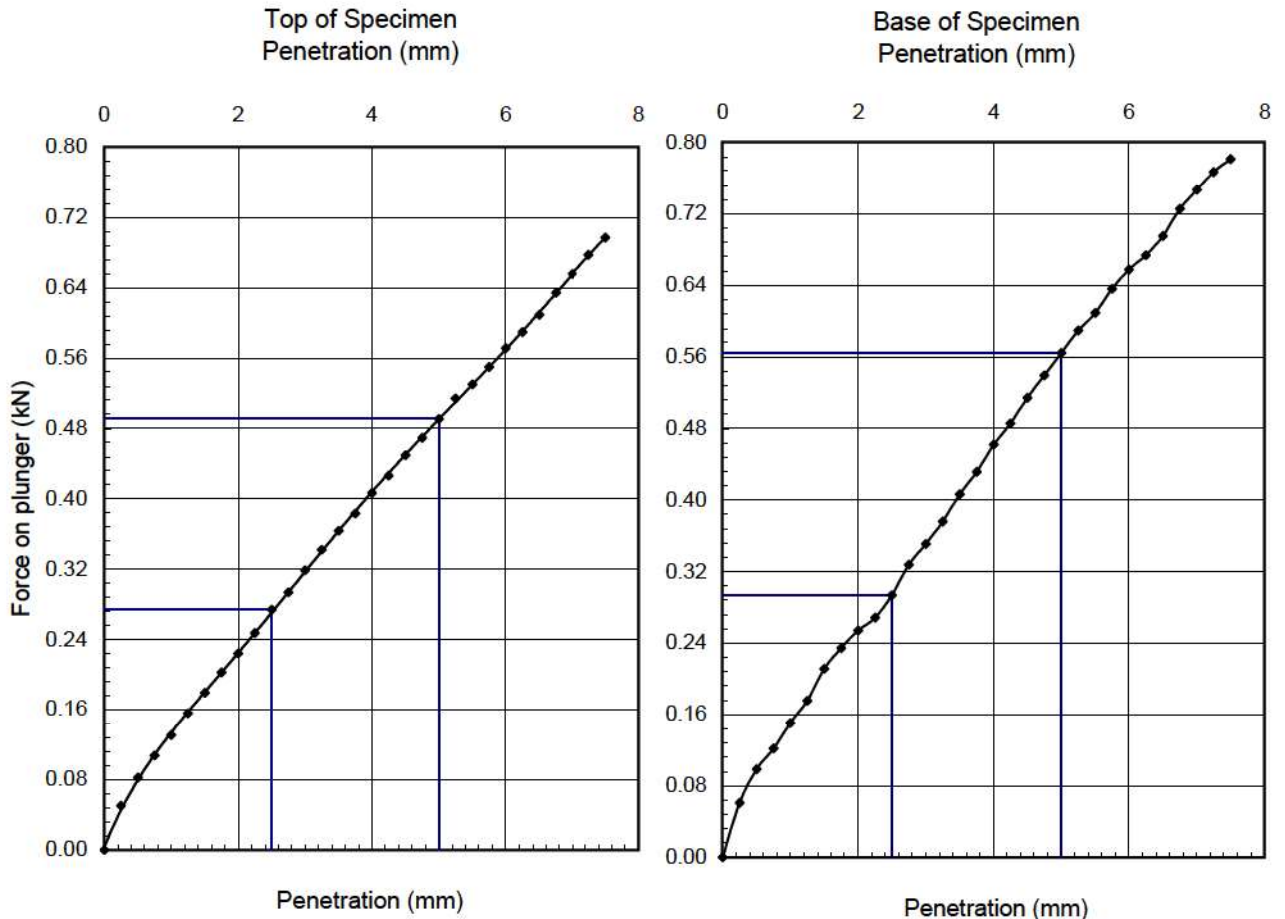
Specimen Dry Density 1.68 Mg/m<sup>3</sup>

Mass of sample > 20 mm 58.2 %

Specimen Unsoaked

**Test Details:**

	Top		Base	
Surcharge:	2.0	kg	2.0	kg
Seating Load:	50	N	50	N
Moisture Content:	21	%	20	%
CBR Value:	2.5	%	2.8	%



Non standard test due to % retained on 20mm sieve

Originator	Checked & Approved
SK	CD 10/08/2021

**CALIFORNIA BEARING RATIO**  
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