

TEST REPORT :
DETERMINATION OF THE GEOMETRICAL PROPERTIES OF AGGREGATE

BSEN 933-11:2009 Classification Test For The Constituents Of Coarse Recycled Aggregate

REPORT No.:	5001518 / 337922.20.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	532988	ADDRESS:	Erith House
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SUPPLIER:	Not Specified
SAMPLED BY:	Ben Collins	MATERIAL:	6F5
DATE RECEIVED:	13/03/2025	LOCATION:	Site Stockpile
DATE TEST COMPLETED:	20/03/2025	ACCEPT STD:	Contract Specification
TESTED BY:	AR	SAMPLING CERT.:	Available
DRYING TEMPERATURE:	40 ± 5°C		

TEST RESULT:

	<u>CONSTITUENT</u>	<u>FOUND PROPORTION</u>	<u>SPECIFICATION (%)</u>
Rc -	Concrete, concrete products & concrete masonry units.	68.2 %	Not Specified
Ru -	Unbound aggregate, natural stone & Hydraulically bound aggregate.	19 %	Not Specified
	(% of CHALK found within Ru)	0.0 %	
Rb -	Clay masonry units (ie.bricks & tiles), calcium silicate masonry units & aerated non-floating concrete	12.5 %	Not Specified
Ra -	Bituminous Material	0 %	50
Rg -	Glass	0.2 %	Not Specified
X -	Other: Cohesive (ie clay & soil), gypsum plaster, miscellaneous - metals (ferrous & non ferrous), non-floating wood, plastic & rubber.	0.0 %	1.0
FL -	Floating Particles	0.0 cm ³ /kg	Not Specified

REMARKS:

The material supplied complies with the specification limits stated
 Test results reported relate only to the items tested.
 This report shall not be reproduced except in full without approval of the laboratory.

Remaining sample will be retained for a minimum of 28 days from date of report.

For and on behalf of CTS



Chris Davidson - Regional Laboratories Manager
 Dan Gay - Laboratory Manager
 Matt Butt - Operations Manager
 Mike Gray - Laboratory Supervisor

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Report Format: L/Rep A16/rev.1

Approved signatory
 20-Mar-25

DETERMINATION OF RESISTANCE OF COARSE AGGREGATE TO FRAGMENTATION

Los Angeles Test BS EN 1097-2: 2020

REPORT NUMBER:	C5001518 / 337922.14.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	533862	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE RECEIVED:	19/03/2025	SUPPLIER:	Not Specified
DATE SAMPLED:	12/03/2025	SOURCE:	Not Specified
DATE COMPLETED:	26/03/2025	MATERIAL:	6F5
TESTED BY:	Colin Gourlay	LOCATION:	Site Stockpile
ACCEPTABLE STANDARD:	Contract Specification	SAMPLING CERTIFICATE:	Available
SAMPLING PLAN:	Client Provided	ENVIRONMENTAL CONDITIONS:	Overcast
METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles		

TEST RESULT: Test Location: Harritsham

SPECIFICATION REQUIREMENTS

	LOWER LIMIT	UPPER LIMIT
THE LOS ANGELES COEFFICIENT (LA)::	37	50
SIZE FRACTION FROM WHICH TEST PORTION WAS OBTAINED:	10-14 mm	

Remarks:

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Report Format: LA/TP19/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 26-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF RESISTANCE OF COARSE AGGREGATE TO FRAGMENTATION

Los Angeles Test BS EN 1097-2: 2020

REPORT NUMBER:	C5001518 / 337922.14.1.3	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532988	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE RECEIVED:	13/03/2025	SUPPLIER:	Not Specified
DATE SAMPLED:	12/03/2025	SOURCE:	Not Specified
DATE COMPLETED:	26/03/2025	MATERIAL:	6F5
TESTED BY:	Colin Gourlay	LOCATION:	Site Stockpile
ACCEPTABLE STANDARD:	Contract Specification	SAMPLING CERTIFICATE:	Available
SAMPLING PLAN:	Client Provided	ENVIRONMENTAL CONDITIONS:	Overcast
METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles		

TEST RESULT: Test Location: Harritsham

SPECIFICATION REQUIREMENTS

	LOWER LIMIT	UPPER LIMIT
THE LOS ANGELES COEFFICIENT (LA)::	40	50
SIZE FRACTION FROM WHICH TEST PORTION WAS OBTAINED:	10-14 mm	

Remarks:

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Mike Gray - Laboratory Supervisor



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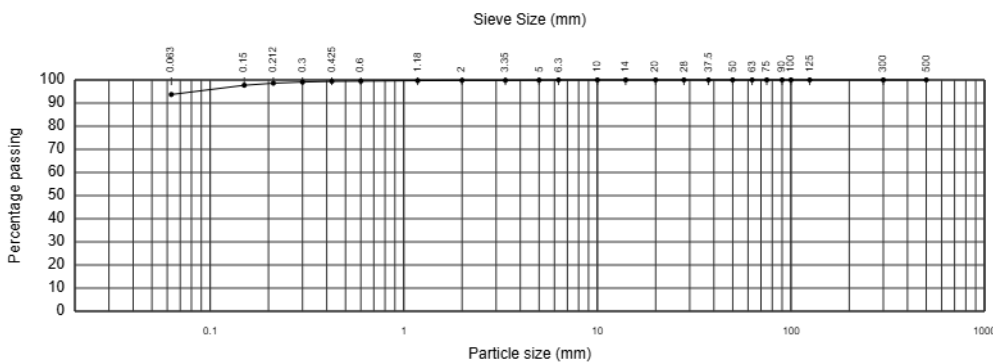
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.4.1.1
SAMPLE NUMBER: 521348
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 03/02/2025
TESTED BY: RK, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.075	0.075	0.075	0.075	0.075	0.075	0.075	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 0%
Percentage SAND: 6%
Percentage SILT/CLAY: 94%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	100	
2	100	
1.18	100	
0.6	100	
0.425	99	
0.3	99	
0.212	99	
0.15	98	
0.063	94	

Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 03-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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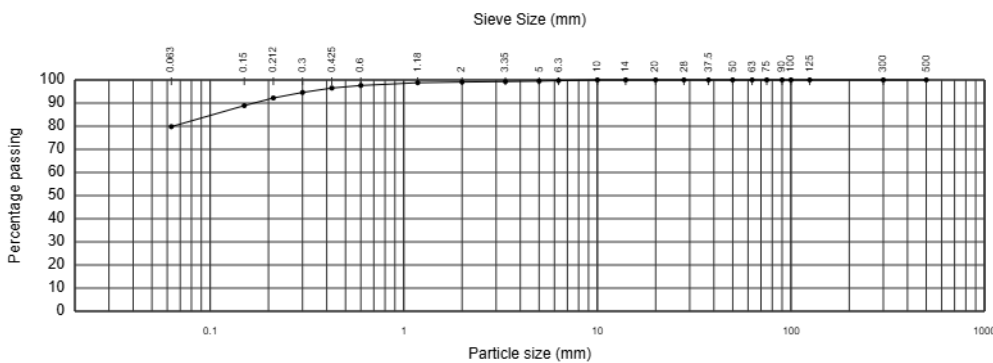
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.3.1.1
SAMPLE NUMBER: 521352
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 06/02/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 1%
Percentage SAND: 19%
Percentage SILT/CLAY: 80%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	99	
2	99	
1.18	99	
0.6	98	
0.425	97	
0.3	95	
0.212	92	
0.15	89	
0.063	80	

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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 06-Feb-25

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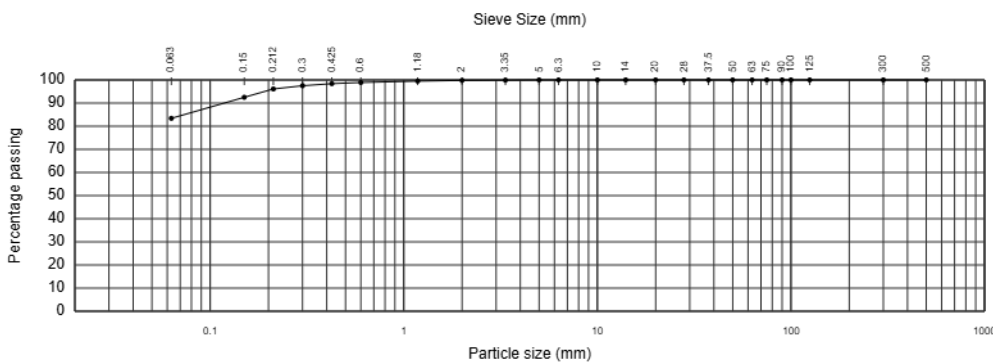
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.2.1.1
SAMPLE NUMBER: 521350
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 03/02/2025
TESTED BY: RK, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			SAND			GRAVEL		
						COBBLE		
						BOULDERS		

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 0%
Percentage SAND: 16%
Percentage SILT/CLAY: 83%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	100	
2	100	
1.18	100	
0.6	99	
0.425	98	
0.3	98	
0.212	96	
0.15	93	
0.063	83	

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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 03-Feb-25

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END OF REPORT

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.12.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521348	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Clay
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	10/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, HM	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 20.5mm, Water content A: 72.5%

Penetration B 20.4mm, Water content B: 72.5%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	73%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	32%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	41%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	53.4%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

Test results reported relate only to the items tested.

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory

Report date 10-Feb-25

Construction Testing Solutions Ltd.

Registered in England No. 05998333



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Report Format: PI/TP04/Rep Issue 1 Rev 2 04/24

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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.4.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521350	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	10/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, HM	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 19.6mm, Water content A: 75.6%

Penetration B 19.7mm, Water content B: 75.5%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	76%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	35%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	41%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	53.2%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 10-Feb-25

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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.8.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521352	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	06/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, RK	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 19.4mm, Water content A: 76.9%

Penetration B 19.9mm, Water content B: 77.0%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	77%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	27%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	50%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	50.5%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Remarks:

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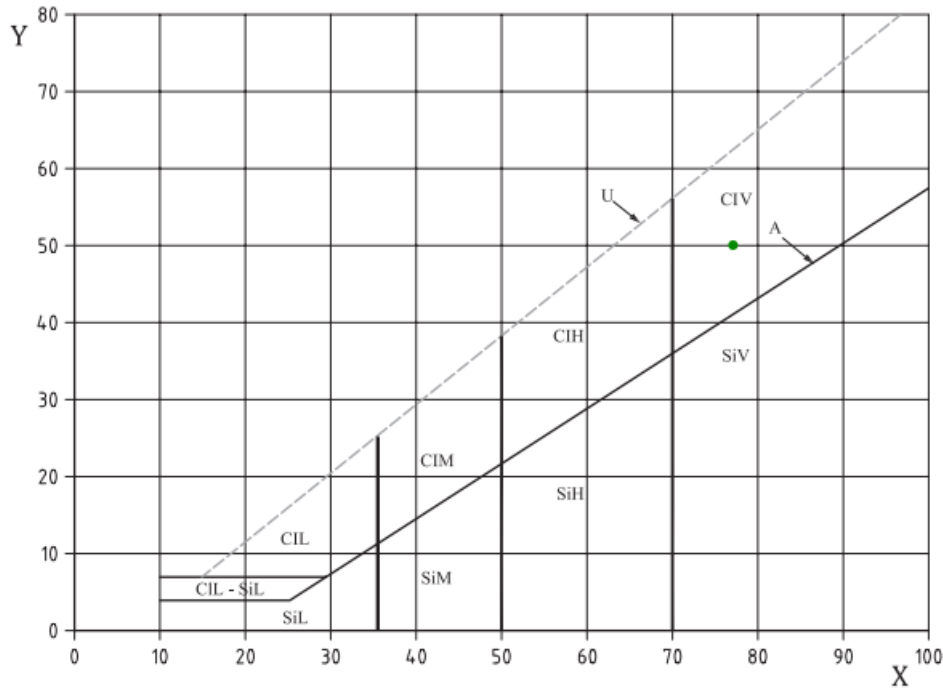
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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:

C5001518 / 330611.8.1.1



Key

X liquid limit, w_L				Y plasticity index, I_P
Soil type		Plasticity		
				Liquid limit
Cl	Clay	L	Low	<35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	>70
		O	Organic	append to classification for organic material (e.g. ClHO)
U line		$I_P = 0,9 (w_L - 8)$		A line $I_P = 0,73 (w_L - 20)$

Figure 1 — Plasticity chart

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager

Sasha Mahon

Approved Signatory

Report date 06-Feb-25

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Registered in England No. 05998333

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END OF REPORT



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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awatkins@prosoils.co.uk

Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521348

Source: Not Specified

CTS Reference: 521348

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.18
Diameter	mm	101.35
Area	mm ²	8067.47
Volume	cm ³	816.27
Mass	g	1373
Dry Mass	g	900
Bulk Density	Mg/m ³	1.68
Dry Density	Mg/m ³	1.10
Water Content	%	52.6
Voids Ratio	-	1.404
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	47.3
Bulk Density	Mg/m ³	1.62
Dry Density	Mg/m ³	1.10

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

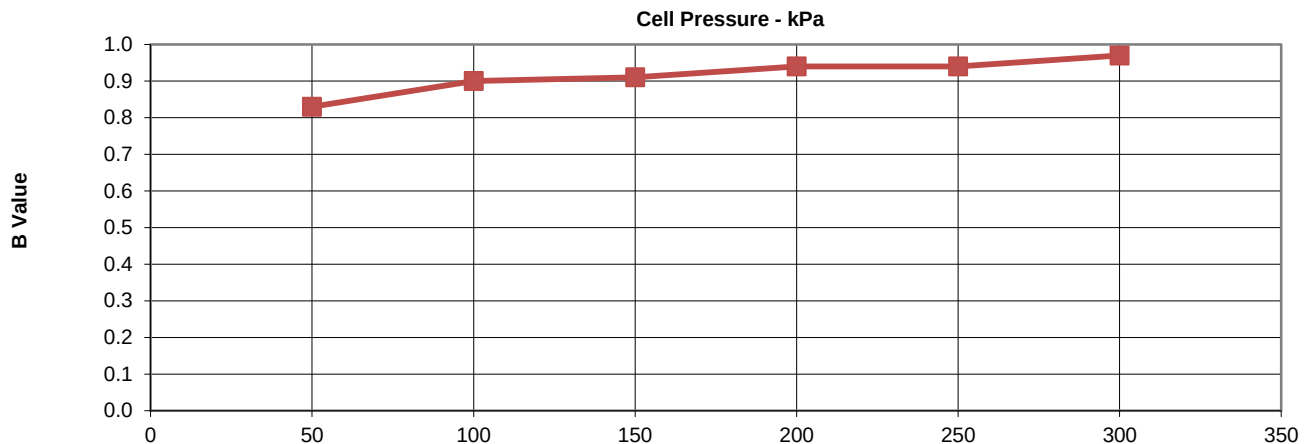
PSL25/0552

Client Ref

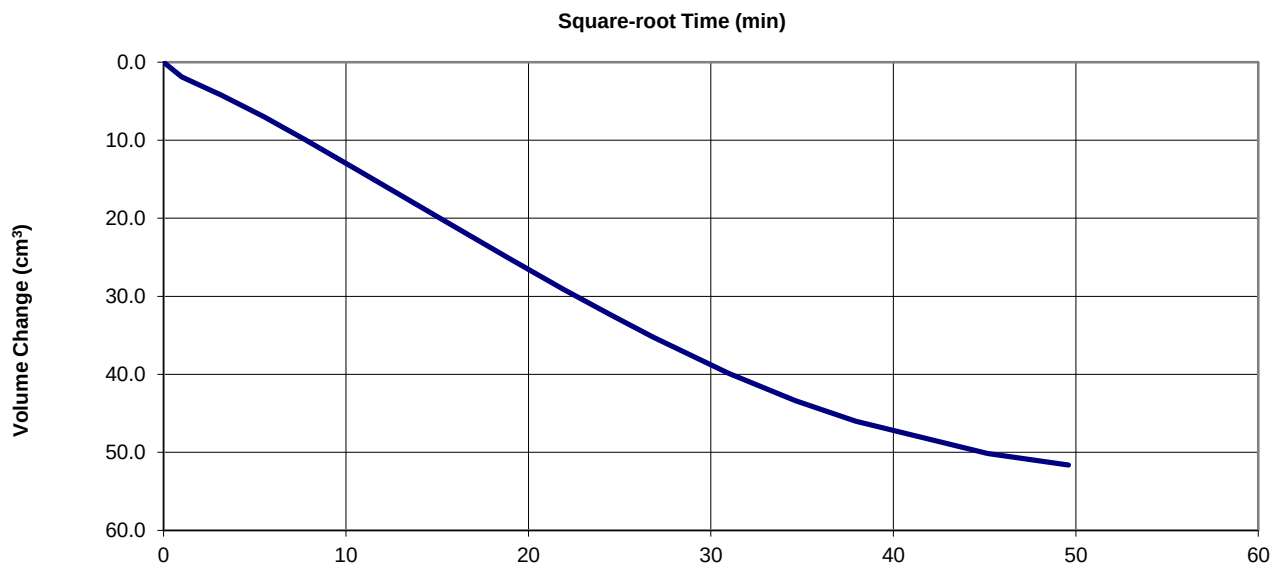
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521348
Supplier:	m	Not Specified
CTS Reference:		521348
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	300
Final B Value	-	0.97



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

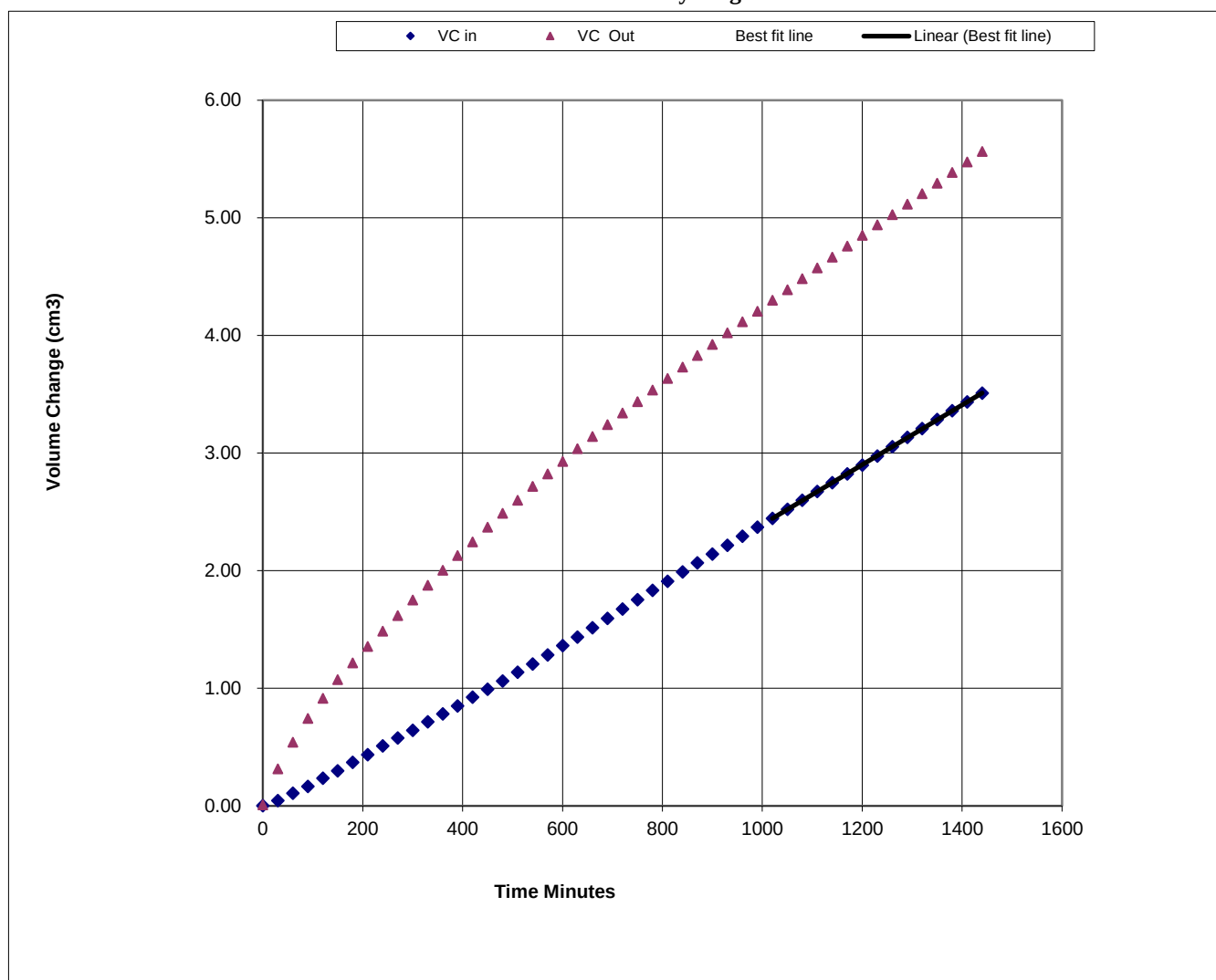
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521348
Supplier:	m	Not Specified
CTS Reference:		521348
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0025
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.6E-10



Leeside Road, Tottenham

Contract No.

PSL25/0552

Client Ref



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521350

Source: Not Specified

CTS Reference: 521350

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.32
Diameter	mm	101.39
Area	mm ²	8073.84
Volume	cm ³	818.04
Mass	g	1373
Dry Mass	g	893
Bulk Density	Mg/m ³	1.68
Dry Density	Mg/m ³	1.09
Water Content	%	53.8
Voids Ratio	-	1.428
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	47.7
Bulk Density	Mg/m ³	1.61
Dry Density	Mg/m ³	1.09

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

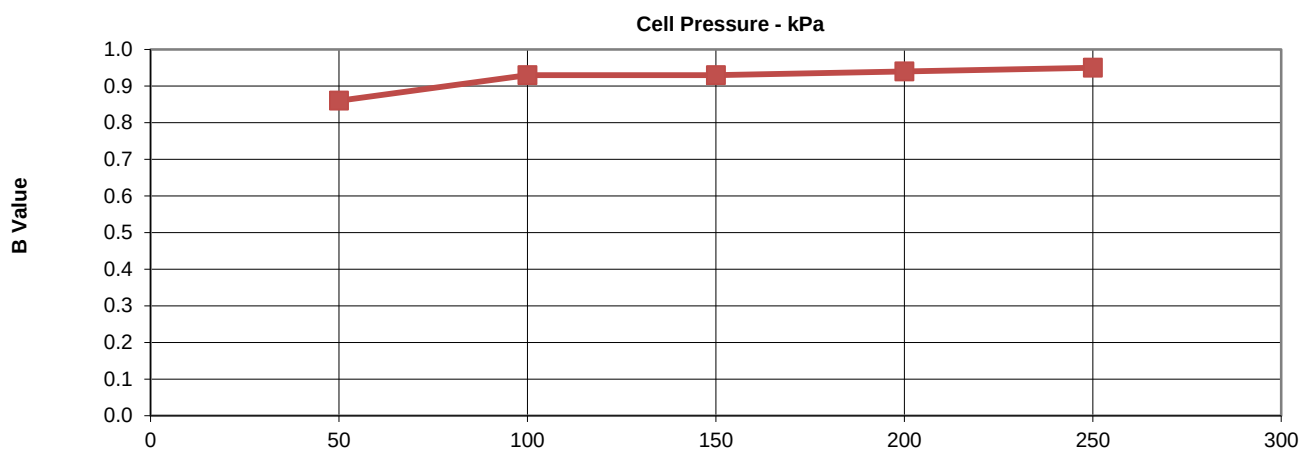
PSL25/0552

Client Ref

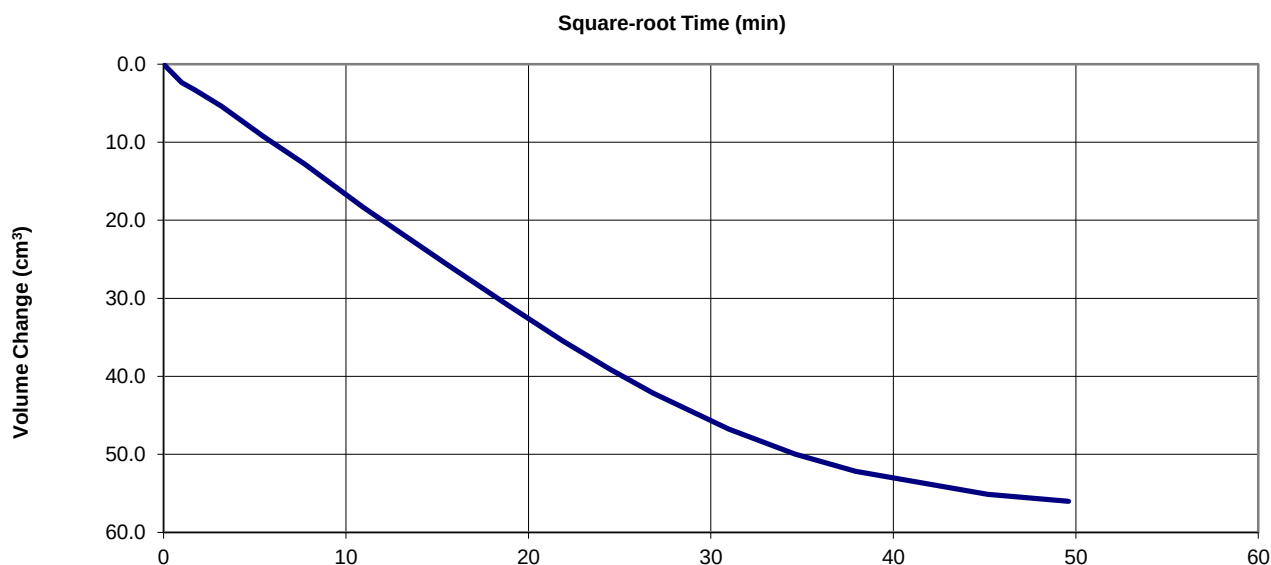
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521350
Supplier:	m	Not Specified
CTS Reference:		521350
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	250
Final B Value	-	0.95



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

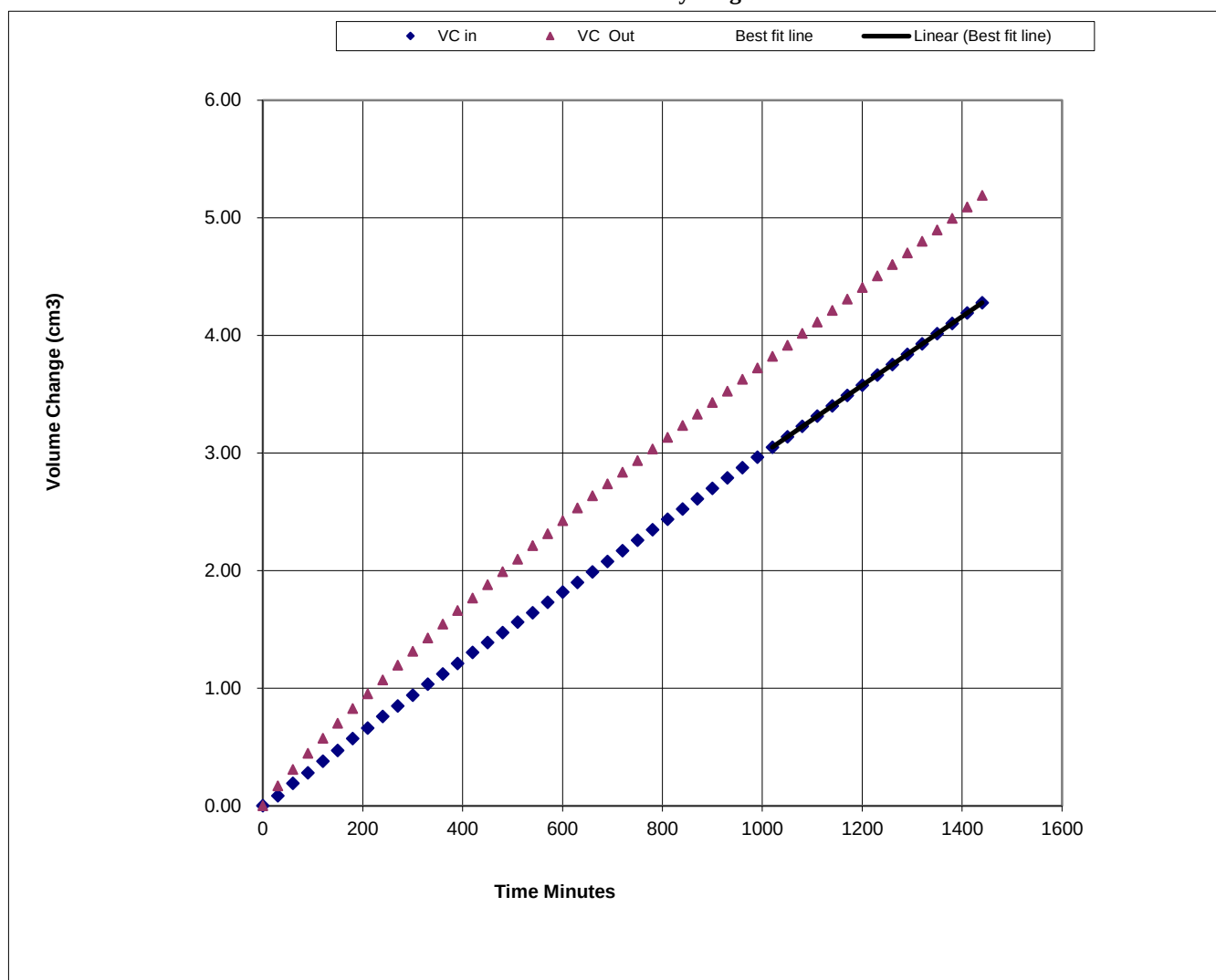
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521350
Supplier:	m	Not Specified
CTS Reference:		521350
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0029
Average Temperature	'C	20
Vertical Permeability Kv	m/s	3.0E-10



Leeside Road, Tottenham

Contract No.

PSL25/0552

Client Ref



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521352

Source: Not Specified

CTS Reference: 521352

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.20
Diameter	mm	101.39
Area	mm ²	8073.84
Volume	cm ³	817.07
Mass	g	1381
Dry Mass	g	914
Bulk Density	Mg/m ³	1.69
Dry Density	Mg/m ³	1.12
Water Content	%	51.0
Voids Ratio	-	1.368
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	46.4
Bulk Density	Mg/m ³	1.64
Dry Density	Mg/m ³	1.12

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

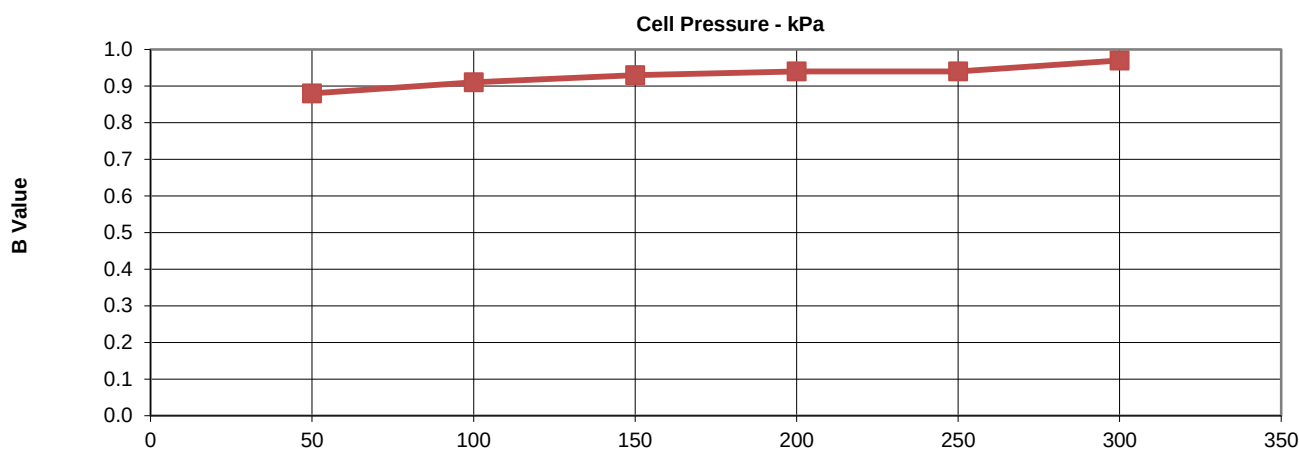
PSL25/0552

Client Ref

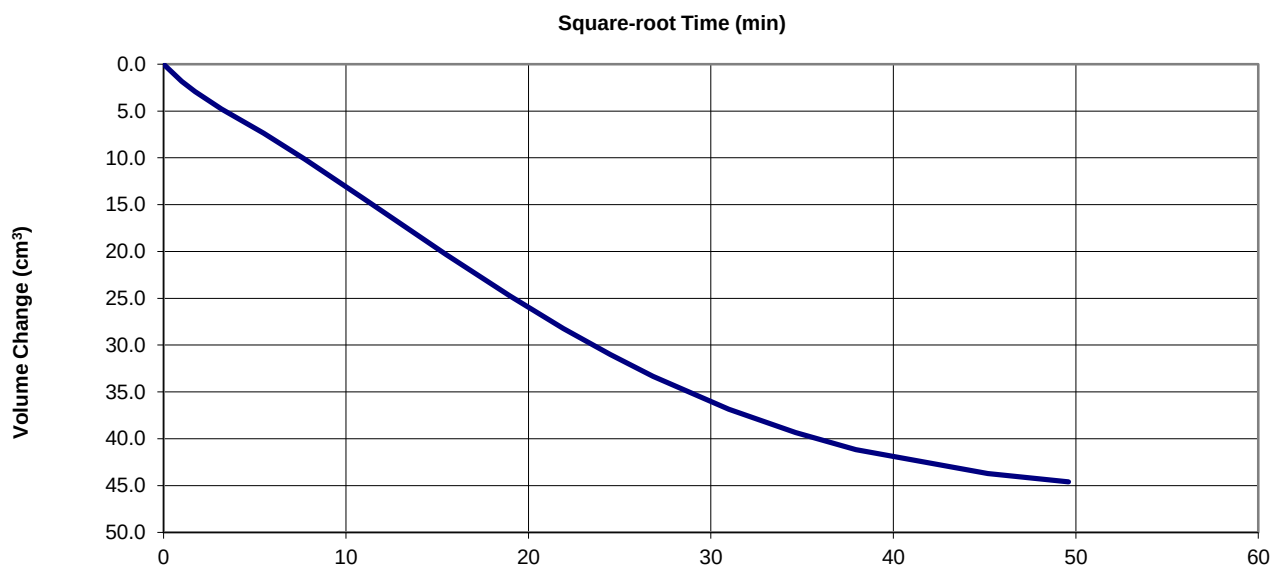
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521352
Supplier:	m	Not Specified
CTS Reference:		521352
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	300
Final B Value	-	0.97



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

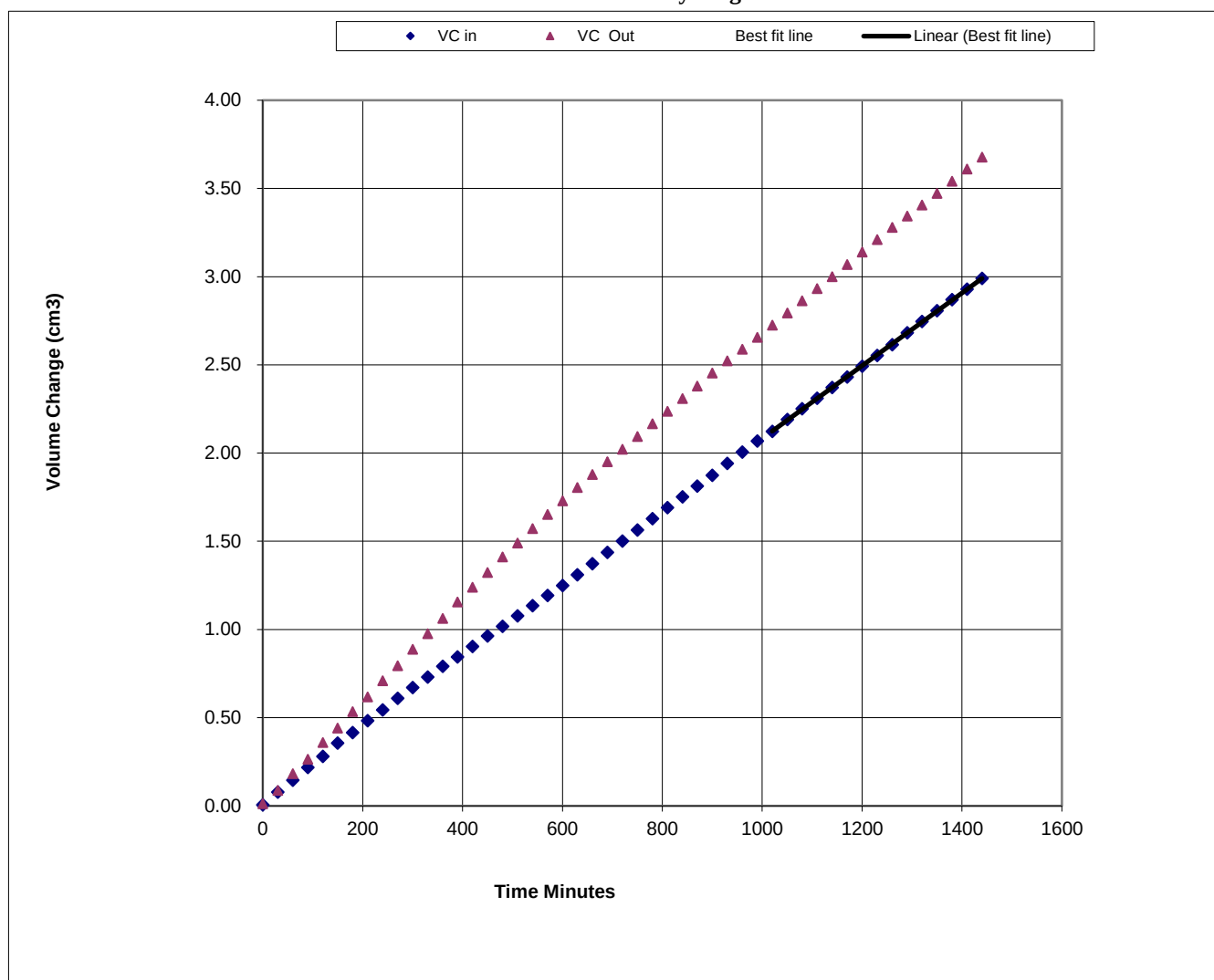
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521352
Supplier:	m	Not Specified
CTS Reference:		521352
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0021
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.1E-10



Leeside Road, Tottenham

Contract No.
PSL25/0552
Client Ref

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

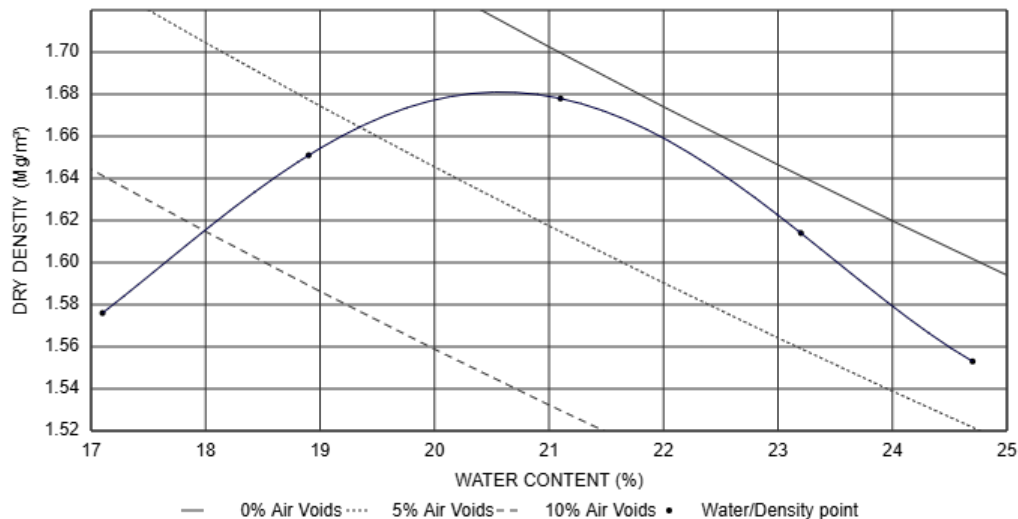
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330611.14.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521348	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	Husain Mohammad	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.68 Mg/m³
OPTIMUM WATER CONTENT: 21 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
Test results reported relate only to the items tested.
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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

Unit 12 Britannia Ind Estate
Poyle Road
Colnbrook
SL3 0BH

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enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

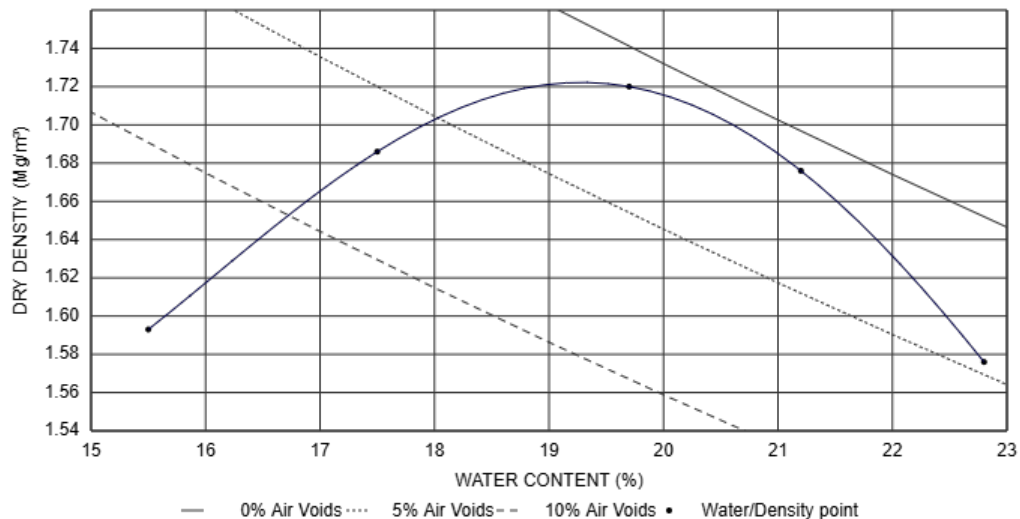
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330611.18.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521352	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	HM, JP	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.72 Mg/m³
OPTIMUM WATER CONTENT: 19 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



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Poyle Road
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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
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DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

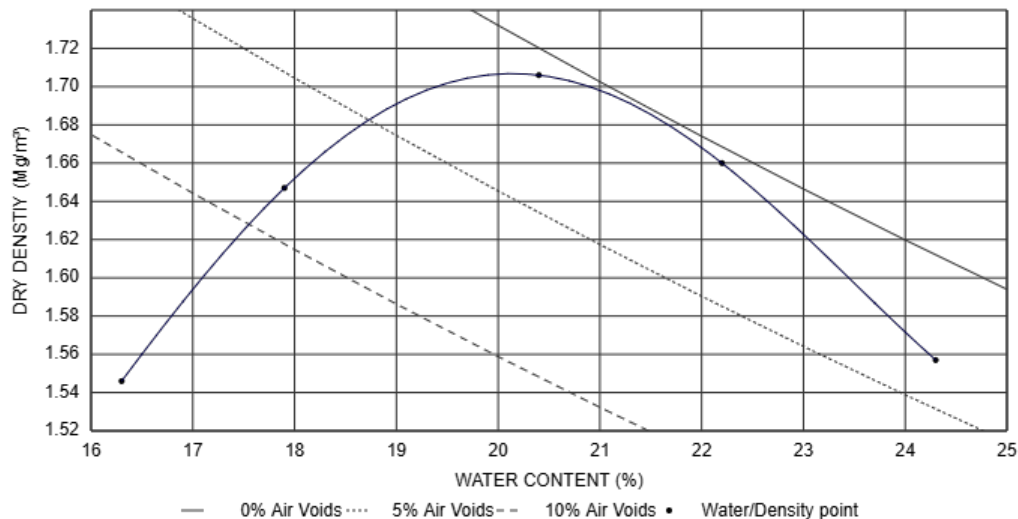
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330657.1.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521350	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	Husain Mohammad	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.71 Mg/m³
OPTIMUM WATER CONTENT: 20 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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END OF REPORT

Report version 1

Page 1 of 1

TEST REPORT : DETERMINATION OF NUCLEAR DENSITY METER vs. MATERIAL CALIBRATION

BS 1377-9: 1990 cl 2.5.5.2 : Single box - As Received Moisture

REPORT No.:	5001518 / 333415.2.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	525849	ADDRESS:	Erith House
CLIENT REF:	5001518		
DATE SAMPLED:	10/02/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Earl Pioche	SUPPLIER:	Site
DATE RECEIVED:	10/02/2025	MATERIAL:	Very soft light brown very sandy silty CLAY with rare shell fragments
DATE TESTED:	13/02/2025	ACCEPT. STD:	Contract Specification
TESTED BY:	JP/EP/AP	CERTIFICATE OF SAMPLING:	Available
SAMPLING PLAN:	Client Specification		

RESULT: Test Location: Harrietsham Lab

CALIBRATION BOX DETAILSBulk Density of Material in Box 1.601 Mg/m³

Moisture Content of Material 63.3 %

Moisture Density of Compacted Material 0.620 Mg/m³**NUCLEAR DENSITY METER DETAILS**

N.D.M. Serial Number	NDM Bulk Density (mean of 4 readings) Mg/m ³	Bulk Density Correction	NDM Moisture Density (mean of 4 readings) Mg/m ³	Moisture Density Correction
15414 (200)	1.587	1.009	0.615	1.009

COMMENTS:

For and on behalf of Construction Testing Solutions



● Sasha Mahon - Laboratory Manager

Page 1 of 1

Format : L/Rep NDMBOXCALs/rev.3

Approved Signatory

18-Feb-25



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The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer

END OF REPORT

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

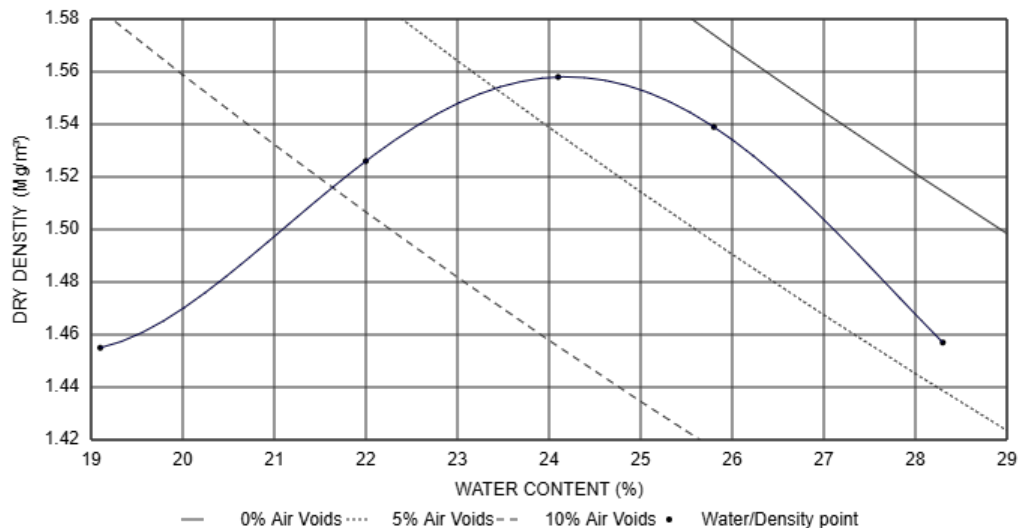
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 333415.1.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	525849	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	10/02/2025	SUPPLIER:	Site, In-situ site won
SAMPLED BY:	Earl Pioche	MATERIAL:	Very soft light brown very sandy silty CLAY with rare shell fragments
DATE RECEIVED:	10/02/2025	LOCATION:	Erith site compound Leeside road, Tottenham
DATE COMPLETED:	14/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.4)
TESTED BY:	HM, JP	COMPACTION SAMPLE:	
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Overcast	GRADING ZONE:	2
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.56 Mg/m³
OPTIMUM WATER CONTENT: 24 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 1 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 18-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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END OF REPORT

Report version 1

Page 1 of 1

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.2
CLIENT REF: 5001518
DATE COMPLETED: 10/02/2025
TESTED BY: Earl Pioche
LOCATION: CLAY TEST PAD (ROLLER), CBR 02
GROUND CONDITIONS: Wet
DISTANCE FROM EDGE OF PLATE TO WALL: 0 mm
TEST DEPTH: 0mm
AIR TEMPERATURE: 4°C
SAMPLING PLAN: CTS procedure

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
LAT / LNG: 51.6048373, -0.0471406
MATERIAL: Clay
ENVIRONMENTAL CONDITIONS: Overcast
SUPPLIER: Site
SOURCE: Site won-insitu
TEST METHOD: Incremental Plate Loading
SAMPLE TAKEN: No

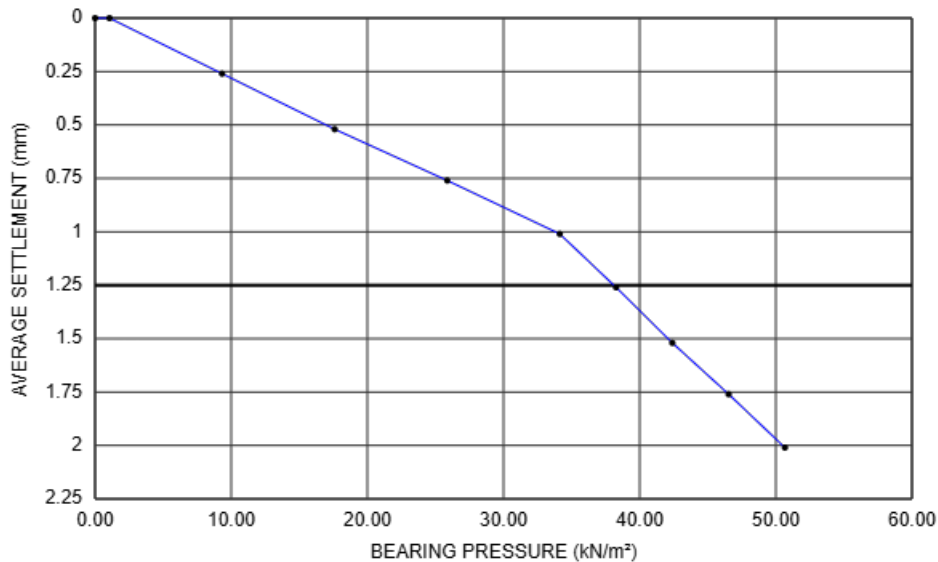
Equipment Details

Type of Kentledge: 27 Ton Excavator
Plate Diameter: 450 mm
Plate Area: 0.159043 m²
Plate Correction: 0.62

Results

Max applied pressure: 51 kN/m²
Max settlement: 2.01 mm
Avg Bearing Pressure (P) at 1.25mm penetration: 38 kN/m²
Modulus of subgrade K762: 19 kN/m²/mm
Equivalent C.B.R Value at 1.25mm penetration: 1.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 1.6 %

Remarks:

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Report Format: STP S8 rev.1

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Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1

Page 1 of 2

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.2

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.2	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	9.3	-0.26	-0.21	-0.30	0.26	0.21	0.30	0.26
2.8	17.6	-0.50	-0.46	-0.59	0.50	0.46	0.59	0.52
4.1	25.9	-0.71	-0.76	-0.80	0.71	0.76	0.80	0.76
5.4	34.1	-0.97	-1.02	-1.05	0.97	1.02	1.05	1.01
6.1	38.3	-1.21	-1.24	-1.33	1.21	1.24	1.33	1.26
6.7	42.4	-1.49	-1.52	-1.55	1.49	1.52	1.55	1.52
7.4	46.5	-1.73	-1.76	-1.80	1.73	1.76	1.80	1.76
8.1	50.7	-1.96	-2.02	-2.04	1.96	2.02	2.04	2.01

Remarks:

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 10-Feb-25

Construction Testing Solutions Ltd.
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DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

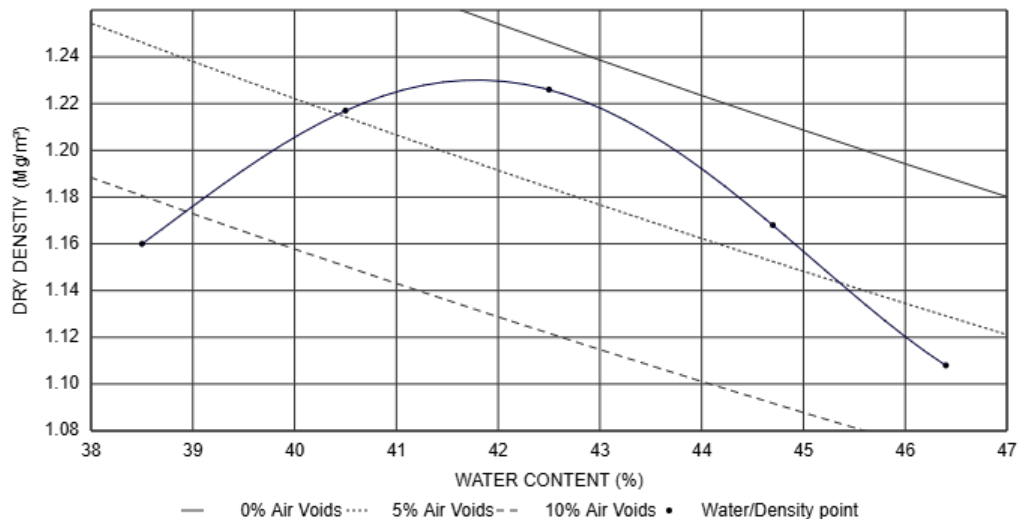
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 334682.13.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528333	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528333	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	Aggreg8, Barnston
SAMPLED BY:	Aaron Henson	MATERIAL:	Brown clay 7J
DATE RECEIVED:	21/02/2025	LOCATION:	7J Stockpile - 4th Round
DATE COMPLETED:	14/03/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	JG, CP	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Overcast	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: MT Billericay

MAXIMUM DRY DENSITY: 1.23 Mg/m³
OPTIMUM WATER CONTENT: 42 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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END OF REPORT

For and on behalf of CTS
James Gough - Senior Lab Technician

Approved Signatory
Report date 10-Apr-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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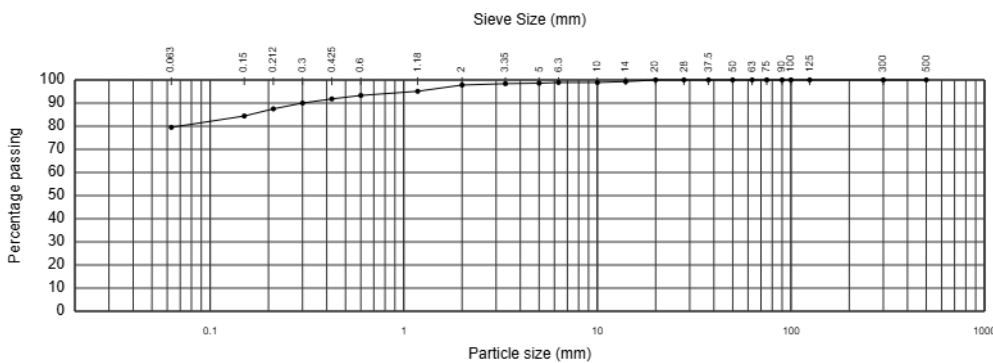
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 334682.21.1.1
SAMPLE NUMBER: 528333
CLIENT REF: 528333
DATE SAMPLED: 20/02/2025
SAMPLED BY: Aaron Henson
DATE RECEIVED: 21/02/2025
DATE COMPLETED: 07/03/2025
TESTED BY: EB, CP
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Aggreg8, Barnston
MATERIAL DESCRIPTION: Brown clay
PROPOSED CLASSIFICATION:
LOCATION: 7J Stockpile - 4th Round
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: MT Billericay



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			SAND			GRAVEL		
						COBBLE		
						BOULDERS		

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 2%
Percentage SAND: 18%
Percentage SILT/CLAY: 80%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	99	
10	99	
6.3	99	
5	99	
3.35	98	
2	98	
1.18	95	
0.6	93	
0.425	92	
0.3	90	
0.212	88	
0.15	84	
0.063	80	

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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25

Construction Testing Solutions Ltd.
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LABORATORY REPORT



Contract Number: PSL25/1356

Report Date: 14 March 2025
Client's Reference: 334682
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 25/2/2025
Date Commenced: 25/2/2025
Date Completed: 14/3/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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awatkins@prosoils.co.uk

Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 528333

Source: Barnston

CTS Reference: 528333

Supplier: Aggreg8

Sample Type: B

Location: 7J Stockpile - 4th Round

Date Sampled: 20/02/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.22
Diameter	mm	101.15
Area	mm ²	8035.66
Volume	cm ³	813.37
Mass	g	1325
Dry Mass	g	834
Bulk Density	Mg/m ³	1.63
Dry Density	Mg/m ³	1.03
Water Content	%	58.8
Voids Ratio	-	1.583
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	50.8
Bulk Density	Mg/m ³	1.55
Dry Density	Mg/m ³	1.03

Test Setup		
Date Started		03/03/2025
Date Finished		07/03/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

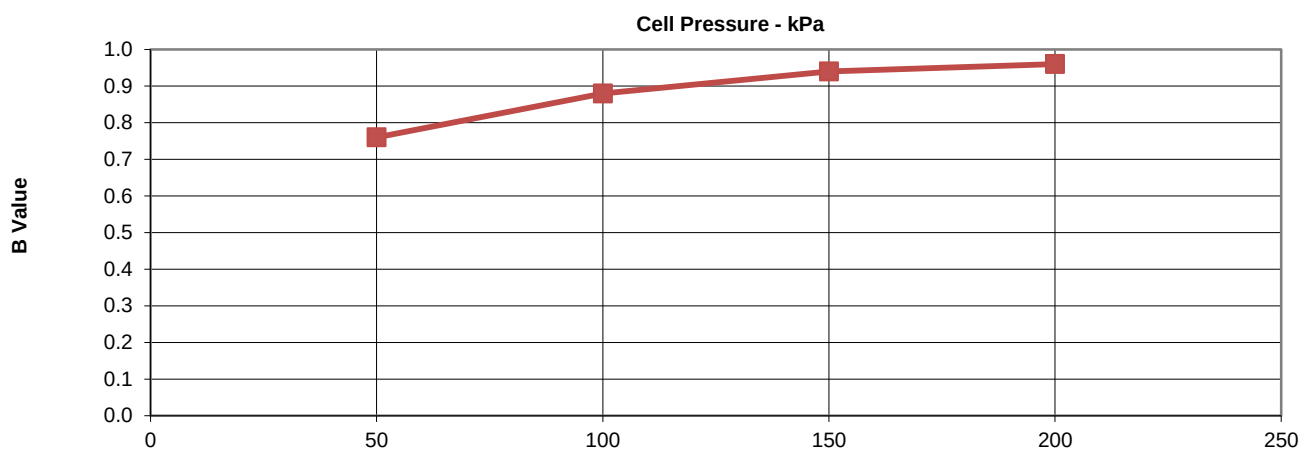
PSL25/1356

Client Ref

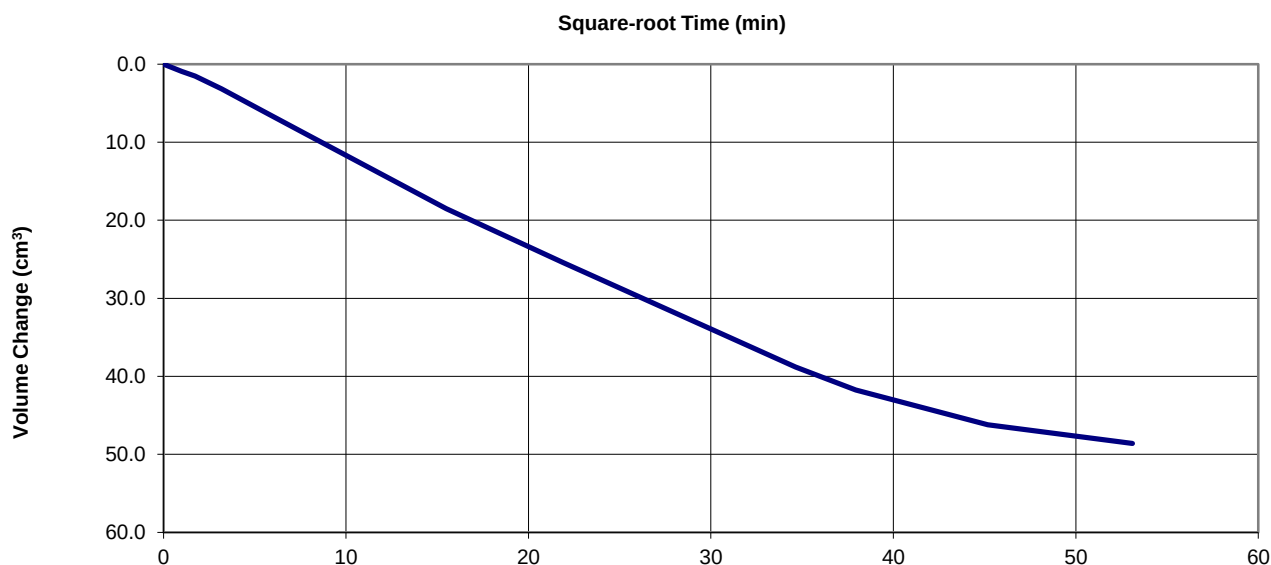
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		528333
Supplier:	m	Barnston
CTS Reference:		528333
Location:		7J Stockpile - 4th Round
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	200
Final B Value	-	0.96



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/1356

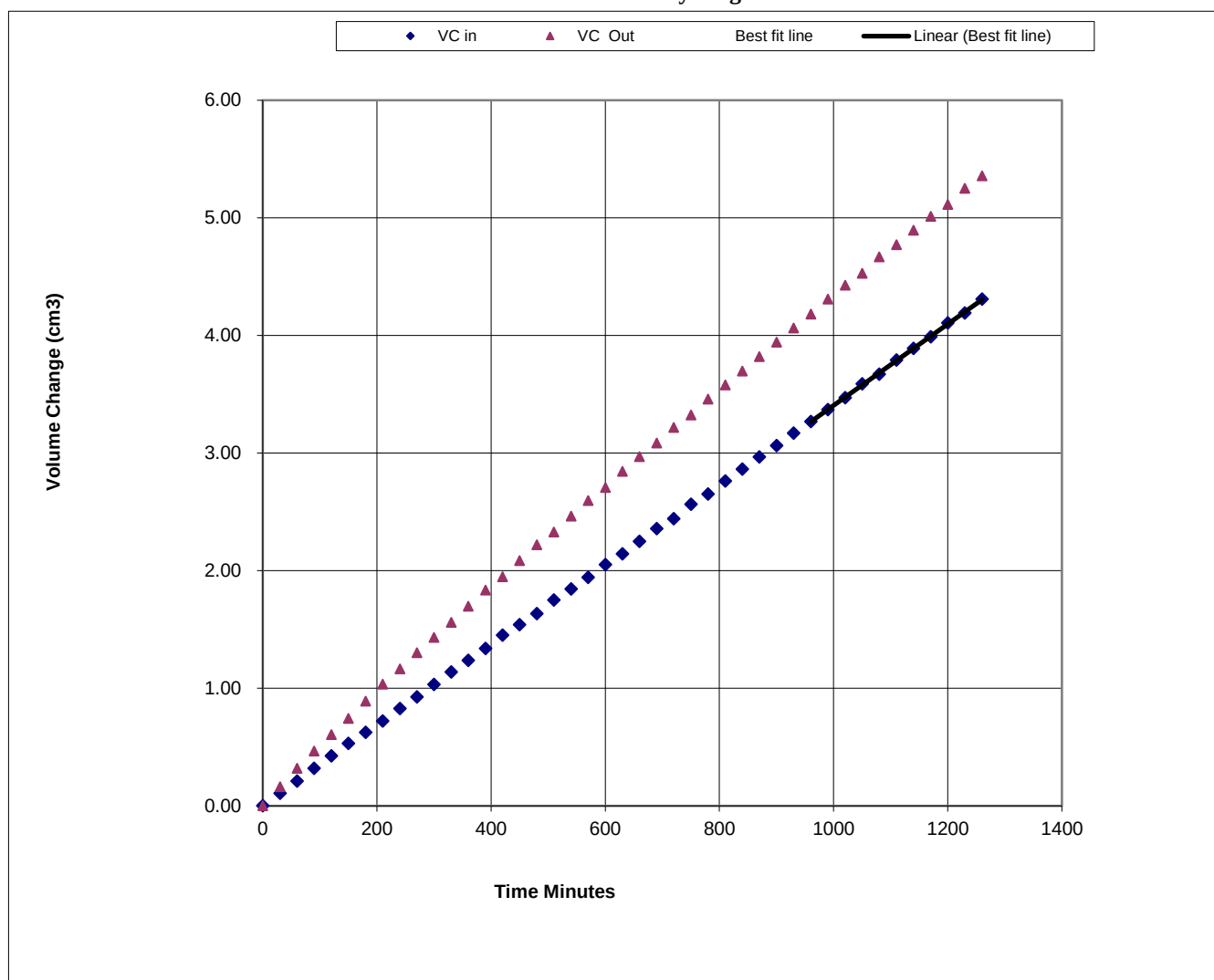
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		528333
Supplier:	m	Barnston
CTS Reference:		528333
Location:		7J Stockpile - 4th Round

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0022
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.2E-10



Leeside Road, Tottenham

Contract No.
PSL25/1356
Client Ref

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 334682.15.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528333	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528333	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Aaron Henson	MATERIAL:	Brown clay 7J
DATE RECEIVED:	21/02/2025	SUPPLIER:	Aggreg8, Barnston
DATE COMPLETED:	06/03/2025	SOURCE:	Barnston
TESTED BY:	JG, EB	SAMPLE LOCATION:	7J Stockpile - 4th Round
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

RESULTS: Test Location: MT Billericay

Type of cone used: 80g/30°

Factor for one point test: 0.949

Penetration A 22.9mm, Water content A: 63.1%

Penetration B 22.8mm, Water content B: 62.9%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	60%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	28%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	32%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	76%	Taken from PSD	
Initial water content determined :	N/A		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

Test results reported relate only to the items tested.

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www.constructiontesting.co.uk
END OF REPORT

For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF THE MOISTURE CONTENT OF SOILS

BS 1377:Part 2:1990 clause 3.2 - oven drying method

REPORT NUMBER:	C5001518 / 334682.20.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	Aggreg8
SAMPLED BY:	Aaron Henson	SOURCE:	Barnston
DATE RECEIVED:	21/02/2025	MATERIAL:	See Below
DATE COMPLETED:	04/03/2025	LOCATION:	See Below
TESTED BY:	EB, CP	PREPARATION METHOD:	BS 1377-1: 2016 clause 8
TYPE OF SAMPLE:	Disturbed sample	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
SAMPLING PLAN:	CTS procedure TP41	LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A
ENVIRONMENTAL CONDITIONS:	Overcast		

TEST RESULT: Test Location: MT Billericay

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
528333	528333	Sampling on surface	Brown clay	47	NA	NA

Remarks:

Test results reported relate only to the items tested.
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Report Format: MC/TP01/Rep Issue 1 Rev 1 06/22

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Mountnessing Road
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END OF REPORT

For and on behalf of CTS
James Gough - Senior Lab Technician



Approved Signatory
Report date 04-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

In-Situ Dry Density, Relative Compaction And Air Voids
BS 1377-9: 1990 Nuclear Density Method D (Direct transmission)

REPORT NUMBER:	C5001518 / 332894.2.1.1	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	10/02/2025	SITE:	Leeside Road, Tottenham Leeside Road, Tottenham,
TESTED BY:	Earl Pioche	SUPPLIER / SOURCE:	Site Site won in-situ
GUAGE MODEL No:	3440	MATERIAL:	Light Brown cohesive loom
GUAGE SERIAL No:	21345	ENVIRONMENTAL CONDITIONS:	Overcast
CORRECTION FACTORS:	Bulk $\gamma=1.009$ Moisture $b=1.009$	OMC REFERENCED:	NA
MAX DRY DENSITY:	1.56 Mg/m ³	PARTICLE DENSITY:	2.65 Mg/m ³
DEPTH OF LAYER:	300	DEPTH OF TEST	250
SAMPLING PLAN:	CTS procedure		

TEST RESULTS Activity Location: On-Site

AREA OF TEST: CLAY TEST PAD(WAKKER), NDM 01

Test No.	Gauge Bulk Density (Mg/m ³)	Gauge Moisture Density (Mg/m ³)	Corrected Bulk Density (Mg/m ³)	Corrected Moisture Content (%)	Mean Moisture Content (%)	Mean Dry Density (Mg/m ³)	Mean Air Voids (%)	Mean Relative Compaction (%)
WAKKER pad CH1	1.530	0.368	1.54	32	31	1.17	18.9	75
	1.524	0.362	1.54	31				
CLAY TEST PAD(WAKKER), NDM 01 CH2	1.500	0.335	1.51	29	29	1.17	21.8	75
	1.498	0.338	1.51	29				
CLAY TEST PAD(ROLLER), NDM 02 CH3	1.509	0.368	1.52	32	32	1.15	19.4	74
	1.507	0.370	1.52	33				
CLAY TEST PAD(ROLLER), NDM 02 CH4	1.539	0.359	1.55	30	30	1.19	18.9	76
	1.537	0.358	1.55	30				

Remarks:
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END OF REPORT

For and on behalf of CTS
Tim Gray - Operations Supervisor



Approved Signatory
Report date 24-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF IN-SITU DENSITY

Tested in accordance with BS 1377:Part 9:1990 clause 2.2 Large Cylinder Sand Replacement

REPORT NUMBER:	C5001518 / 332894.3.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NO:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE TESTED:	10/02/2025	MATERIAL:	Clay
TESTED BY:	Earl Pioche	SOURCE:	In-situ site won
SUPPLIER:	Site	DEVIATIONS:	None
ENVIRONMENTAL CONDITIONS:	Overcast	SAMPLING METHOD:	Method 4: Sampling material from heaps / stockpiles
SAMPLING PLAN:	CTS procedure TP41	TEST LEVEL:	250mm
GROUNDWATER LEVEL:	Not known		

RESULTS

LOCATION DETAILS

Laboratory Ref:	525775	525799
Client Ref:	5001518	5001518
Test location:	CLAY PLATFORM(WAKKER), SRD 01	CLAY TEST PAD(ROLLER), SRD 02

Weather Conditions:	Overcast	Overcast
---------------------	----------	----------

TEST DETAILS

Bulk Density: (Mg/m ³)	1.52	1.59
Moisture Content: (%)	31	28
Dry Density: (Mg/m ³)	1.16	1.24
Maximum Dry Density: (Mg/m ³)	1.94	1.94
Percentage Compaction: (%)	59.7	64.0
Particle Density (Mg/m ³)	2.64	2.64
Volume of Air Voids (%)	20.4	17.8

Remarks:

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Report Format: SRD/TP11/Rep Issue 1 Rev 0 11/22

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 28-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.1
CLIENT REF: 5001518
DATE COMPLETED: 10/02/2025
TESTED BY: Earl Pioche
LOCATION: CLAY TEST PAD(WAKKER), CBR 01
GROUND CONDITIONS: Wet
DISTANCE FROM EDGE OF PLATE TO WALL: 0 mm
TEST DEPTH: 0mm
AIR TEMPERATURE: 4°C
SAMPLING PLAN: CTS procedure

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
LAT / LNG: 51.6049347, -0.0470949
MATERIAL: Clay
ENVIRONMENTAL CONDITIONS: Overcast
SUPPLIER: Site
SOURCE: Site won-insitu
TEST METHOD: Incremental Plate Loading
SAMPLE TAKEN: No

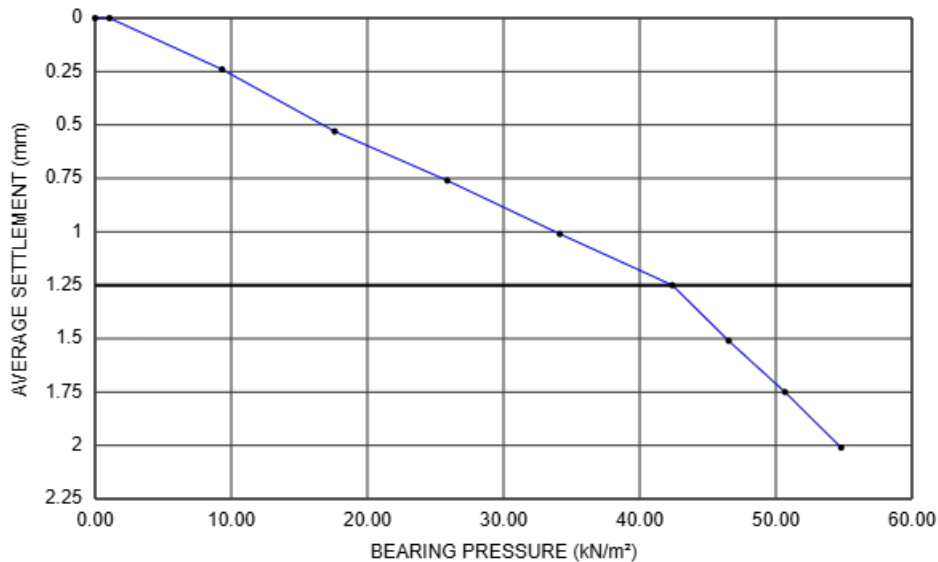
Equipment Details

Type of Kentledge: 27 Ton Excavator
Plate Diameter: 450 mm
Plate Area: 0.159043 m²
Plate Correction: 0.62

Results

Max applied pressure: 55 kN/m²
Max settlement: 2.01 mm
Avg Bearing Pressure (P) at 1.25mm penetration: 42 kN/m²
Modulus of subgrade K762: 21 kN/m²/mm
Equivalent C.B.R Value at 1.25mm penetration: 1.9%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 1.9 %

Remarks:

Test results reported relate only to the items tested.
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Report version 1

Page 1 of 2

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.1

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.2	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	9.3	-0.21	-0.25	-0.27	0.21	0.25	0.27	0.24
2.8	17.6	-0.52	-0.53	-0.53	0.52	0.53	0.53	0.53
4.1	25.9	-0.75	-0.76	-0.77	0.75	0.76	0.77	0.76
5.4	34.1	-1.01	-1.01	-1.02	1.01	1.01	1.02	1.01
6.7	42.4	-1.23	-1.26	-1.27	1.23	1.26	1.27	1.25
7.4	46.5	-1.51	-1.50	-1.52	1.51	1.50	1.52	1.51
8.1	50.7	-1.74	-1.76	-1.76	1.74	1.76	1.76	1.75
8.7	54.8	-1.99	-2.03	-2.01	1.99	2.03	2.01	2.01

Remarks:

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Report Format: STP S8 rev.1

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 10-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 331042.2.1.1

SAMPLE NUMBER: 522371

CLIENT REF: 5001518

DATE SAMPLED: 24/01/2025

SAMPLED BY: Tim Gray

DATE RECEIVED: 27/01/2025

DATE COMPLETED: 06/02/2025

TESTED BY: JP, BV

TYPE OF SAMPLE: Disturbed

VARIATIONS: No variations

METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles

ENVIRONMENTAL CONDITIONS: Overcast

CLIENT:

ERITH CONTRACTORS LTD

ADDRESS:

Erith House, 7 Queen Street, Erith, Kent, DA8 1RP

SITE:

Leeside Road, Tottenham

SOURCE / SUPPLIER:

Rms recycled materials supplied , Silvertown

MATERIAL DESCRIPTION:

Brown slightly silty slightly sandy clayey GRAVEL with wood

PROPOSED CLASSIFICATION:

LOCATION:

Material mound

PREPARATION METHOD:

BS 1377:Part 1:2016 clause 8.3 & 8.4.5

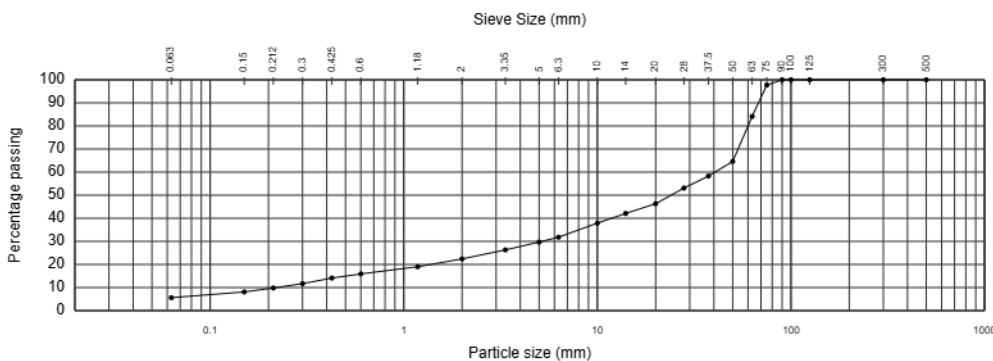
SAMPLING PLAN:

Client Specification

LOCATION AND ORIENTATION N/A

WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.075	0.075	0.075	0.075	0.075	0.075	0.075	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%

Percentage COBBLES: 16%

Percentage GRAVEL: 62%

Percentage SAND: 17%

Percentage SILT/CLAY: 6%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	98	
63	84	
50	65	
37.5	58	
28	53	
20	46	
14	42	
10	38	
6.3	32	
5	30	
3.35	26	
2	22	
1.18	19	
0.6	16	
0.425	14	
0.3	12	
0.212	10	
0.15	8	
0.063	6	

Remarks:

Test results reported relate only to the items tested.

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory

Report date 06-Feb-25

Construction Testing Solutions Ltd.

Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

Report version 1

Page 1 of 1

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

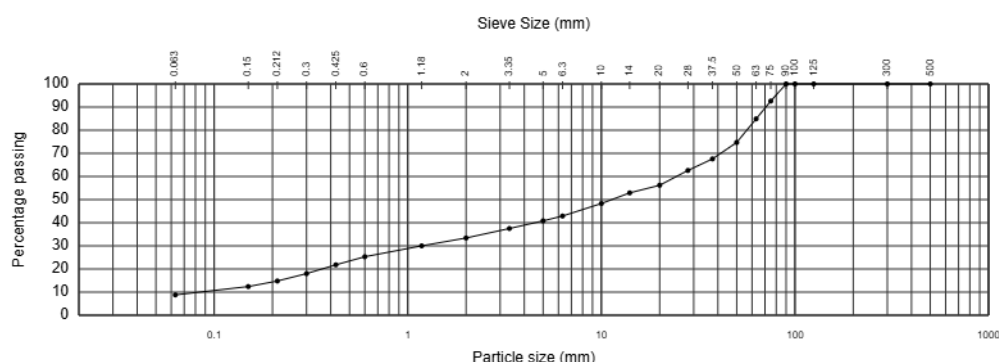
BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330527.12.1.1
SAMPLE NUMBER: 522368
CLIENT REF: 5001518
DATE SAMPLED: 24/01/2025
SAMPLED BY: Daniel O'Reilly
DATE RECEIVED: 27/01/2025
DATE COMPLETED: 04/02/2025
TESTED BY: RK, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Rms recycled materials supplied , Silvertown
MATERIAL DESCRIPTION: Brown slightly silty sandy clayey GRAVEL
PROPOSED CLASSIFICATION:
LOCATION: Material mound
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: Client Specification
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow

SIEVE ANALYSIS



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			SAND			GRAVEL		
						COBBLE		
						BOULDERS		

Percentage BOULDERS: 0%
Percentage COBBLES: 15%
Percentage GRAVEL: 52%
Percentage SAND: 25%
Percentage SILT/CLAY: 9%

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	93	
63	85	
50	75	
37.5	68	
28	63	
20	56	
14	53	
10	48	
6.3	43	
5	41	
3.35	38	
2	33	
1.18	30	
0.6	25	
0.425	22	
0.3	18	
0.212	15	
0.15	12	
0.063	9	

Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 04-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330527.13.1.1

SAMPLE NUMBER: 522375

CLIENT REF: 5001518

DATE SAMPLED: 24/01/2025

SAMPLED BY: Daniel O'Reilly

DATE RECEIVED: 27/01/2025

DATE COMPLETED: 04/02/2025

TESTED BY: JP, BV

TYPE OF SAMPLE: Disturbed

VARIATIONS: No variations

METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles

ENVIRONMENTAL CONDITIONS: Overcast

CLIENT:

ADDRESS:

SITE:

SOURCE / SUPPLIER:

MATERIAL DESCRIPTION:

PROPOSED CLASSIFICATION:

LOCATION:

PREPARATION METHOD:

SAMPLING PLAN:

LOCATION AND ORIENTATION N/A

WITHIN SAMPLE:

ERITH CONTRACTORS LTD

Erith House, 7 Queen Street, Erith, Kent, DA8 1RP

Leaside Road, Tottenham

Rms recycled materials supplied , Silvertown

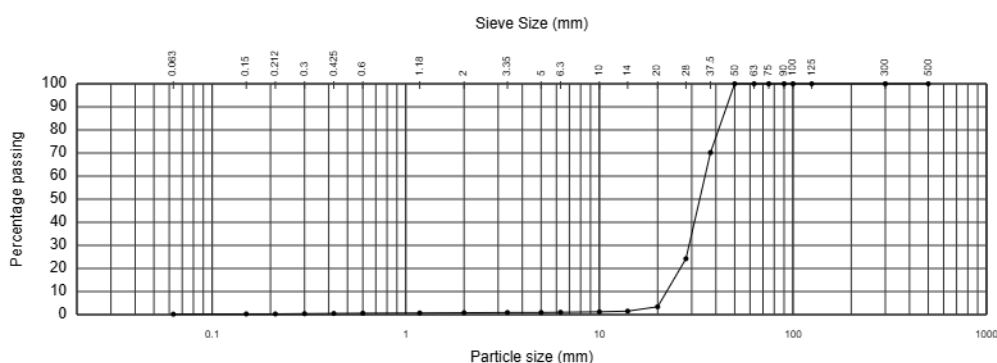
Brown slightly silty slightly sandy slightly clayey GRAVEL

Material mound

BS 1377:Part 1:2016 clause 8.3 & 8.4.5

Client Specification

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 99%
Percentage SAND: 1%
Percentage SILT/CLAY: 0%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	70	
28	24	
20	3	
14	2	
10	1	
6.3	1	
5	1	
3.35	1	
2	1	
1.18	1	
0.6	1	
0.425	1	
0.3	0	
0.212	0	
0.15	0	
0.063	0	

Remarks:

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 04-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

TEST REPORT : DETERMINATION OF NUCLEAR DENSITY METER vs. MATERIAL CALIBRATION

BS 1377-9: 1990 cl 2.5.5.2 : Single box - As Received Moisture

REPORT No.:	5001518 / 333871.4.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	527041	ADDRESS:	Erith House
CLIENT REF:	Box cal class 1a 14/2/25		
DATE SAMPLED:	14/02/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Toby Crouch	SUPPLIER:	RMS
DATE RECEIVED:	18/02/2025	MATERIAL:	Brown slightly silty slightly sandy clayey GRAVEL
DATE TESTED:	27/02/2025	ACCEPT. STD:	Contract Specification
TESTED BY:	JP	CERTIFICATE OF SAMPLING:	Available
SAMPLING PLAN:	Client Specification		

RESULT: Test Location: Heathrow Lab

CALIBRATION BOX DETAILS

Bulk Density of Material in Box	1.835 Mg/m ³
Moisture Content of Material	14.9 %
Moisture Density of Compacted Material	0.238 Mg/m ³

NUCLEAR DENSITY METER DETAILS

N.D.M. Serial Number	NDM Bulk Density (mean of 4 readings) Mg/m ³	Bulk Density Correction	NDM Moisture Density (mean of 4 readings) Mg/m ³	Moisture Density Correction
21345 - 200mm	1.869	0.982	0.234	1.018
15409 - 200mm	1.852	0.991	0.258	0.924

COMMENTS:

For and on behalf of Construction Testing Solutions



Sasha Mahon - Laboratory Manager

Page 1 of 1

Format : L/Rep NDMBOXCALs/rev.3

Approved Signatory

28-Feb-25



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END OF REPORT

DETERMINATION OF THE WATER CONTENT OF SOILS

BS 1377-2: 2022 Clause 4.1 & BS EN 17892-1: 2014 + A1: 2022

REPORT NUMBER:	C5001518 / 330527.2.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	24/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Daniel O'Reily	MATERIAL:	See Below
DATE RECEIVED:	27/01/2025	SUPPLIER:	Rms recycled materials supplied
DATE COMPLETED:	29/01/2025	SOURCE:	Silvertown
TESTED BY:	RK, BV	SAMPLE LOCATION:	See Below
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	Client Specification
LOCATION AND ORIENTATION WITHIN SAMPLE:			
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

TEST RESULT: Test Location: CTS Heathrow

SAMPLE NO.	CLIENT REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	WATER CONTENT (%)	LOWER LIMIT	UPPER LIMIT
522368	5001518	Stockpile back of site	Brown slightly silty sandy clayey GRAVEL	11.7	NA	NA
522331	5001518	Stockpile back of site	Brown slightly sandy clayey GRAVEL	12.5	NA	NA

Remarks:

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Amended report. This test report supersedes test report version 1 -

Report Format: MC/TP01/Rep Issue 1 Rev 1 06/22

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 21-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 2



4161

DETERMINATION OF THE WATER CONTENT OF SOILS

BS 1377-2: 2022 Clause 4.1 & BS EN 17892-1: 2014 + A1: 2022

REPORT NUMBER:	C5001518 / 331042.1.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	24/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Tim Gray	MATERIAL:	See Below
DATE RECEIVED:	27/01/2025	SUPPLIER:	Rms recycled materials supplied
DATE COMPLETED:	29/01/2025	SOURCE:	Silvertown
TESTED BY:	JP, BV	SAMPLE LOCATION:	See Below
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	Client Specification
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

TEST RESULT: Test Location: CTS Heathrow

SAMPLE NO.	CLIENT REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	WATER CONTENT (%)	LOWER LIMIT	UPPER LIMIT
522371	5001518	Stockpile back of site	Brown slightly silty slightly sandy clayey GRAVEL with wood	15.5	NA	NA

Remarks:

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Report Format: MC/TP01/Rep Issue 1 Rev 1 06/22

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 21-Mar-25

Construction Testing Solutions Ltd.
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Report version 1



4161

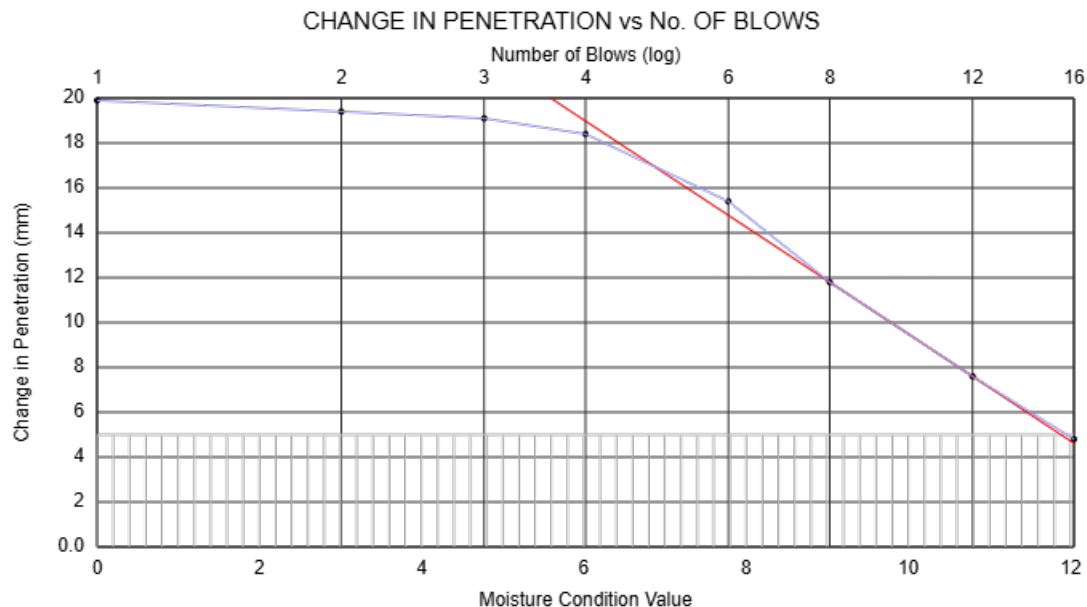
DETERMINATION OF MOISTURE CONDITION VALUE (M.C.V.)

BS 1377 Part 2 : 2022 Clause 13.4 - Natural Moisture Content (Lab Test)

REPORT NUMBER:	C5001518 / 334682.17.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528332	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528332	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	RMS, Silvertown
SAMPLED BY:	Aaron Henson	MATERIAL:	Recycled material / brown slightly silty sandy GRAVEL 1A
DATE RECEIVED:	21/02/2025	FILL LOCATION:	1A Stockpile - 4th Round
DATE COMPLETED:	27/02/2025	CERTIFICATE OF SAMPLING:	Yes
TESTED BY:	Ashad Hussain	SAMPLING PLAN:	CTS procedure TP41
TYPE OF SAMPLE:	Disturbed sample	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Overcast	LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A

RESULTS Test Location: CTS Heathrow

MOISTURE CONDITION VALUE	11.9
NATURAL WATER CONTENT (%)	6.8
WATER CONTENT STANDARD	BS 1377-2: 2022 Clause 4.1 & BS EN 17892-1: 2014 + A1: 2022
PERCENTAGE RETAINED 20mm (%)	47
INTERPRETATION OF CURVE	Steepest straight line
PREPARATION METHOD	BS 1377: Part 2: 2022 clause 13.4.1.1 (Natural and sieved through 20mm test sieve)



Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 07-Mar-25

Construction Testing Solutions Ltd.
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Report Format: MCVa/TP08/Rep Issue 1 Rev 0 06/22

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END OF REPORT

Report version 1



4161

DETERMINATION OF THE MOISTURE CONTENT OF SOILS

BS 1377:Part 2:1990 clause 3.2 - oven drying method

REPORT NUMBER:	C5001518 / 334682.7.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	RMS
SAMPLED BY:	Aaron Henson	SOURCE:	Silvertown
DATE RECEIVED:	21/02/2025	MATERIAL:	See Below
DATE COMPLETED:	07/03/2025	LOCATION:	See Below
TESTED BY:	EB, CP	PREPARATION METHOD:	BS 1377-1: 2016 clause 8
TYPE OF SAMPLE:	Disturbed sample	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
SAMPLING PLAN:	CTS procedure TP41	LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A
ENVIRONMENTAL CONDITIONS:	Overcast		

TEST RESULT: Test Location: MT Billericay

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
528332	528332	Sampling on surface	Recycled material / brown slightly silty sandy GRAVEL	13	NA	NA

Remarks:

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Report Format: MC/TP01/Rep Issue 1 Rev 1 06/22

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END OF REPORT

For and on behalf of CTS
James Gough - Senior Lab Technician



Approved Signatory
Report date 07-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF THE WATER CONTENT OF SOILS

BS 1377-2: 2022 Clause 4.1 & BS EN 17892-1: 2014 + A1: 2022

REPORT NUMBER:	C5001518 / 337922.7.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Ben Collins	MATERIAL:	See Below
DATE RECEIVED:	13/03/2025	SUPPLIER:	Not Specified
DATE COMPLETED:	14/03/2025	SOURCE:	Not Specified
TESTED BY:	Richard Hornett	SAMPLE LOCATION:	See Below
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

TEST RESULT: Test Location: Harrietsham Lab

SAMPLE NO.	CLIENT REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	WATER CONTENT (%)	LOWER LIMIT	UPPER LIMIT
532986	1A	Site Stockpile	1A	10.0	NA	NA

Remarks:

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Report Format: MC/TP01/Rep Issue 1 Rev 1 06/22

Northdown House, Ashford Road
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Kent ME17 1QW

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END OF REPORT

For and on behalf of CTS

Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 21-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

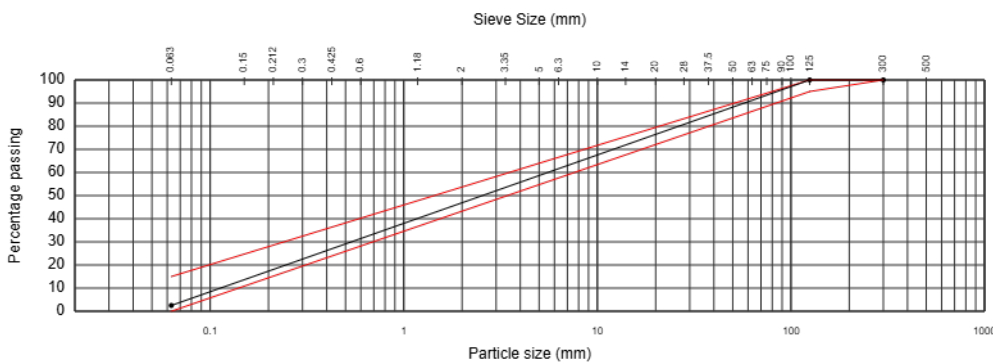
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 337922.6.1.1
SAMPLE NUMBER: 532986
CLIENT REF: 1A
DATE SAMPLED: 12/03/2025
SAMPLED BY: Ben Collins
DATE RECEIVED: 13/03/2025
DATE COMPLETED: 17/03/2025
TESTED BY: RH, CG, jo
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: 1A
PROPOSED CLASSIFICATION: Class 1A
LOCATION: Site Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: Harrietsham Lab



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 29%
Percentage GRAVEL: 46%
Percentage SAND: 23%
Percentage SILT/CLAY: 3%

Applied Specification: Class 1A - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 1A
Specification stated as requested, no indication of conformity applied

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	100 - 100
125	100	95 - 100
100	100	
90	100	
75	83	
63	71	
50	54	
37.5	50	
28	46	
20	42	
14	37	
10	33	
6.3	29	
5	28	
3.35	27	
2	25	
1.18	23	
0.6	21	
0.425	16	
0.3	12	
0.212	6	
0.15	4	
0.063	3	0 - 15

Remarks:
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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 17-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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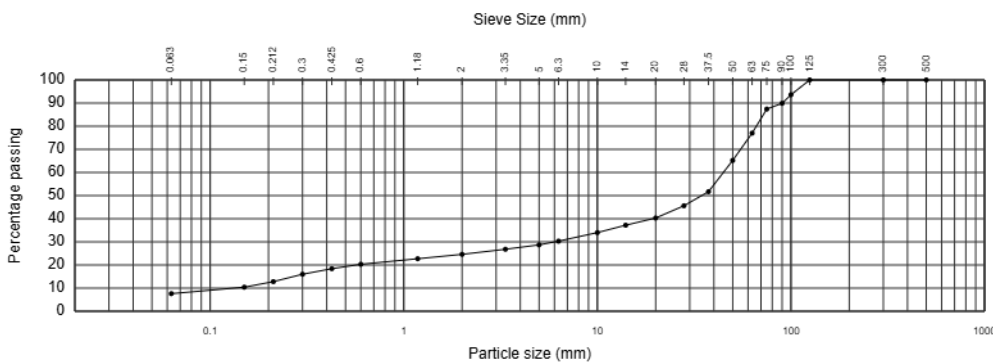
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 351631.13.1.1
SAMPLE NUMBER: 554052
CLIENT REF: 1A Stockpile 006
DATE SAMPLED: 06/06/2025
SAMPLED BY: Nathan Williams
DATE RECEIVED: 09/06/2025
DATE COMPLETED: 13/06/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: RMS Silvertown, RMS Silvertown
MATERIAL DESCRIPTION: Crushed up hardcore big and small bits
PROPOSED CLASSIFICATION:
LOCATION: 1A Stockpile 006
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 23%
Percentage GRAVEL: 52%
Percentage SAND: 17%
Percentage SILT/CLAY: 8%

Uniformity Coefficient (D₆₀/D₁₀) 326
BS EN ISO 14688-2: 2018.

The material tested complies with the uniformity coefficient requirements stated.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	94	
90	90	
75	87	
63	77	
50	65	
37.5	52	
28	46	
20	40	
14	37	
10	34	
6.3	30	
5	29	
3.35	27	
2	25	
1.18	23	
0.6	20	
0.425	18	
0.3	16	
0.212	13	
0.15	10	
0.063	8	

Remarks:
Test results reported relate only to the items tested.
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Report Format: PSDsoil/TP131/Rep Issue 1 Rev 2 04/24

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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 13-Jun-25

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Registered in England No. 05998333

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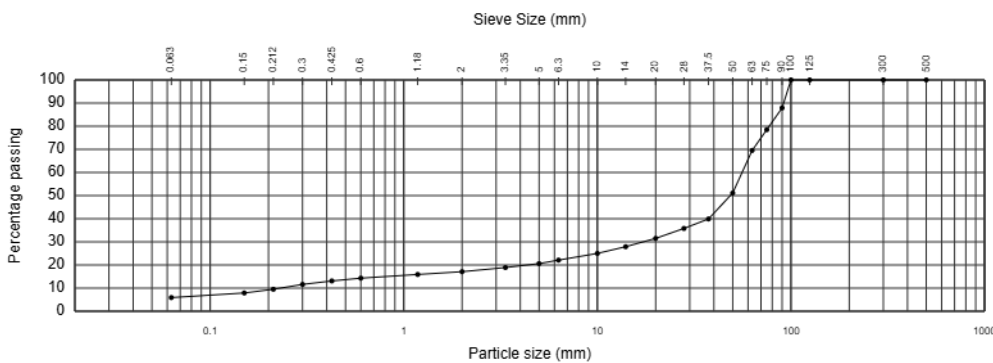
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 351631.14.1.1
SAMPLE NUMBER: 554333
CLIENT REF: 1A Stockpile 007
DATE SAMPLED: 06/06/2025
SAMPLED BY: Nathan Williams
DATE RECEIVED: 09/06/2025
DATE COMPLETED: 13/06/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: RMS Silvertown, RMS Silvertown
MATERIAL DESCRIPTION: Crushed up hardcore big and small bits
PROPOSED CLASSIFICATION:
LOCATION: 1A Stockpile 007
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	63	200
0.020	0.063	0.20	0.63	2.0	6.3	20		
SILT/CLAY	SAND			GRAVEL				

Percentage BOULDERS: 0%
Percentage COBBLES: 31%
Percentage GRAVEL: 52%
Percentage SAND: 11%
Percentage SILT/CLAY: 6%

Uniformity Coefficient (D₆₀/D₁₀) 241
BS EN ISO 14688-2: 2018.

The material tested complies with the uniformity coefficient requirements stated.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	88	
75	79	
63	70	
50	51	
37.5	40	
28	36	
20	32	
14	28	
10	25	
6.3	22	
5	21	
3.35	19	
2	17	
1.18	16	
0.6	14	
0.425	13	
0.3	12	
0.212	10	
0.15	8	
0.063	6	

Remarks:
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Report Format: PSDsoil/TP131/Rep Issue 1 Rev 2 04/24

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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 13-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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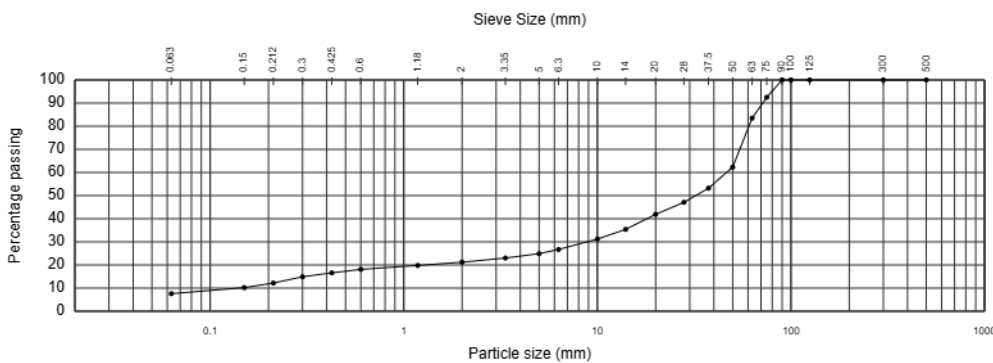
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 351631.15.1.1
SAMPLE NUMBER: 554348
CLIENT REF: 1A Stockpile 008
DATE SAMPLED: 06/06/2025
SAMPLED BY: Nathan Williams
DATE RECEIVED: 09/06/2025
DATE COMPLETED: 13/06/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: RMS Silvertown, RMS Silvertown
MATERIAL DESCRIPTION: Crushed up hardcore big and small bits
PROPOSED CLASSIFICATION:
LOCATION: 1A Stockpile 008
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			GRAVEL			COBBLE		BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 17%
Percentage GRAVEL: 62%
Percentage SAND: 14%
Percentage SILT/CLAY: 8%

Uniformity Coefficient (D₆₀/D₁₀) 326
BS EN ISO 14688-2: 2018.

The material tested complies with the uniformity coefficient requirements stated.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	93	
63	84	
50	62	
37.5	53	
28	47	
20	42	
14	35	
10	31	
6.3	27	
5	25	
3.35	23	
2	21	
1.18	20	
0.6	18	
0.425	17	
0.3	15	
0.212	12	
0.15	10	
0.063	8	

Remarks:
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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 13-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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TEST REPORT :
DETERMINATION OF THE GEOMETRICAL PROPERTIES OF AGGREGATE

BSEN 933-11:2009 Classification Test For The Constituents Of Coarse Recycled Aggregate

REPORT No.:	5001518 / 355950.7.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	561340	ADDRESS:	Erith House
CLIENT REF:	1a stockpile 009	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	01/07/2025	SUPPLIER:	Site won
SAMPLED BY:	Kyle Ager	MATERIAL:	Type 1a
DATE RECEIVED:	02/07/2025	LOCATION:	1a Stockpile 009
DATE TEST COMPLETED:	23/07/2025	ACCEPT STD:	Contract Specification
TESTED BY:	RK	SAMPLING CERT.:	Available
DRYING TEMPERATURE:	40±5°C	SAMPLING PLAN:	CTS Procedure

TEST RESULT: Test Location; Heathrow Laboratory

	<u>CONSTITUENT</u>	<u>FOUND PROPORTION</u>	<u>SPECIFICATION (%)</u>
Rc	Concrete, concrete products & concrete masonry units.	67.8 %	Not Specified
Ru	Unbound aggregate, natural stone & Hydraulically bound aggregate. (% of CHALK found within Ru)	24 % 0.2 %	Not Specified
Rb	Clay masonry units (ie.bricks & tiles), calcium silicate masonry units & aerated non-floating concrete	0.0 %	Not Specified
Ra	Bituminous Material	6.3 %	50
Rg	Glass	0.8 %	25.0
X	Other: Cohesive (ie clay & soil), gypsum plaster, miscellaneous - metals (ferrous & non ferrous), non-floating wood, plastic & rubber.	0.1 %	1.0
FL	Floating Particles	0.12 cm ³ /kg	Not Specified

REMARKS:

The material supplied complies with the specification limits stated
 Test results reported relate only to the items tested.
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For and on behalf of CTS


Shah Alam Acting Laboratory Manager

 Approved signatory
 23-Jul-25


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DETERMINATION OF REFERENCE DENSITY AND WATER CONTENT

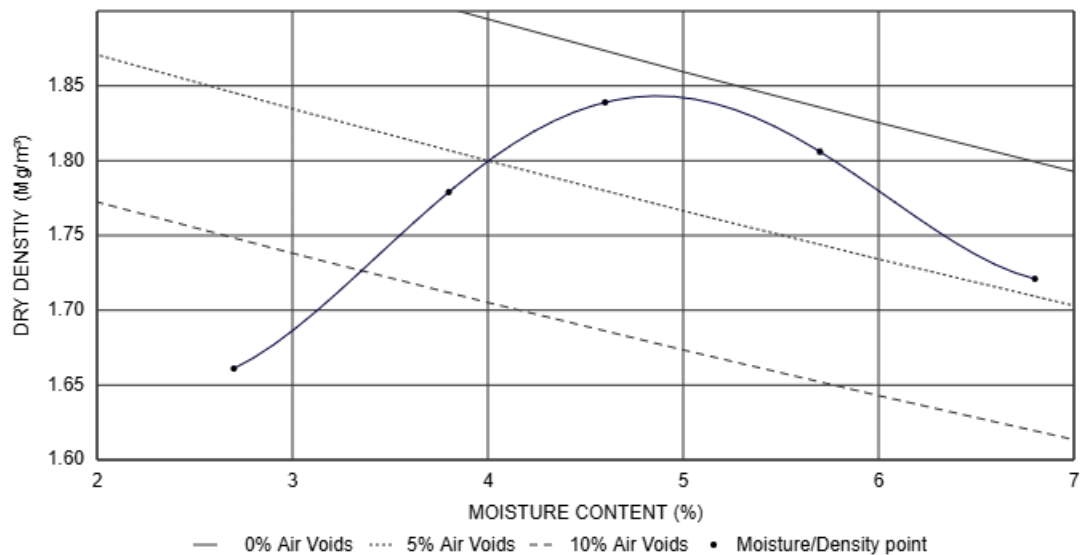
BS EN 13286-4: 2021 - Vibrating Hammer

REPORT NUMBER:	C5001518 / 355950.5.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	561340	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	355950.1.1.1	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	01/07/2025	SUPPLIER/SOURCE:	Site won, Site won
SAMPLED BY:	Kyle Ager	MATERIAL:	Grey sandy gravel 1a
DATE RECEIVED:	02/07/2025	LOCATION:	Near to surface
DATE COMPLETED:	04/08/2025	COMPACTION SAMPLE:	Separate samples
TESTED BY:	Husain Mohammad	SAMPLING PLAN:	CTS procedure TP22
TYPE OF SAMPLE:	Disturbed	SAMPLING METHOD:	C1 Sampling from large conical stockpiles
HAMMER MAKE/MODEL:	Hikoki		
ENVIRONMENTAL CONDITIONS:	Sunny		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.84 Mg/m³
OPTIMUM WATER CONTENT: 5.0 %
AMOUNT (By Dry Mass) RETAINED >40.0mm: 61 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.05 Mg/m³

MOISTURE CONTENT / DRY DENSITY RELATIONSHIP



Non-standard test as material classified as unsuitable, sample tested at clients request, test results may not be indicative of the material being used on site.

Remarks:
Test results reported relate only to the items tested.
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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager

Approved Signatory
Report date 05-Aug-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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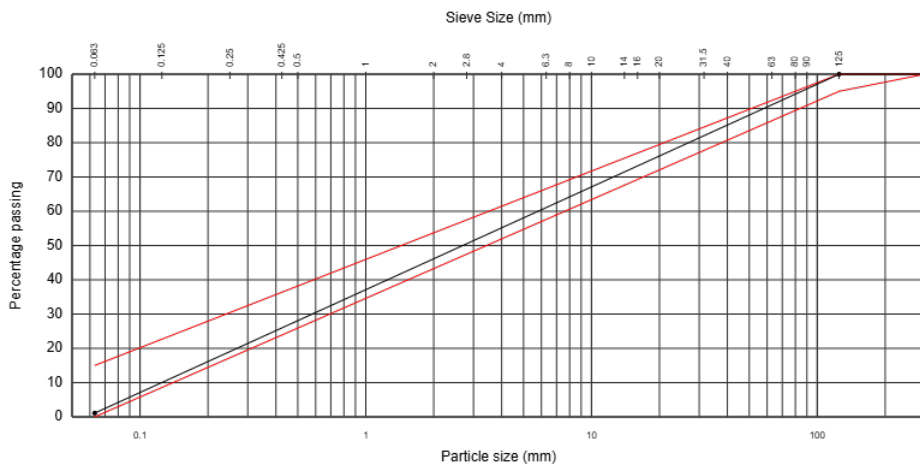
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS EN 933-1 : 2012 Washing & Dry Sieving

REPORT NUMBER: C5001518 / 355950.6.1.1
SAMPLE NUMBER: 561340
CLIENT REF: 1a stockpile 009
DATE SAMPLED: 01/07/2025
SAMPLED BY: Kyle Ager
DATE RECEIVED: 02/07/2025
DATE COMPLETED: 17/07/2025
TESTED BY: Husain Mohammad
ENVIRONMENTAL CONDITIONS: Sunny

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Site won, Site won
MATERIAL: Grey sandy gravel
PROPOSED CLASSIFICATION: Class 1A
LOCATION: 1a stockpile 009
SAMPLING PLAN: CTS procedure TP22
METHOD OF SAMPLING: C1 Sampling from large conical stockpiles

RESULT Test Location: CTS Heathrow



Applied Specification: Class 1A - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 1A
Specification stated as requested, no indication of conformity applied

Uniformity Coefficient (D60/D10) 8 * (Lower limit 10)
BS EN ISO 14688-2: 2018.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	100 - 100
125	100	95 - 100
90	98	
80	95	
63	72	
40	39	
31.5	33	
20	22	
16	19	
14	18	
10	13	
8	11	
6.3	9	
4	7	
2.8	5	
2	4	
1	3	
0.5	2	
0.425	2	
0.25	1	
0.125	1	
0.063	1.1	0 - 15

Remarks:

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For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 20-Jul-25

Construction Testing Solutions Ltd.
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Report Format: PSDagg/TP17/Rep Issue 1 Rev 1 08/23

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END OF REPORT

DETERMINATION OF WATER CONTENT OF AGGREGATE

BS EN 1097-5: 2008 - Drying in a ventilated oven

REPORT NUMBER:	C5001518 / 355950.4.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	01/07/2025	SUPPLIER:	Site won, Site won
SAMPLED BY:	Kyle Ager	MATERIAL:	See Below
DATE RECEIVED:	02/07/2025	LOCATION:	See Below
DATE COMPLETED:	17/07/2025	PREPARATION METHOD:	BS EN 932-2
TESTED BY:	Husain Mohammad	SAMPLING PLAN:	CTS procedure TP22
TYPE OF SAMPLE:	Disturbed	METHOD OF SAMPLING:	C1 Sampling from large conical stockpiles
ENVIRONMENTAL CONDITIONS:	Sunny		

RESULT Test Location: CTS Heathrow

SAMPLE NO.	CLIENT REF.	LOCATION	MATERIAL DESCRIPTION	NOMINAL SIZE	WATER CONTENT (%)	LOWER LIMIT	UPPER LIMIT
561340	1a stockpile 009	Near to surface	Grey sandy gravel	90	3.1	NA	NA
561344	1a stockpile 010	Near to surface	Grey slightly silty GRAVEL with COBBLES	90	4.0	NA	NA

No specification requirements.

Remarks:

Test results reported relate only to the items tested.
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Report Format: WC/TP16/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 20-Jul-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF REFERENCE DENSITY AND WATER CONTENT

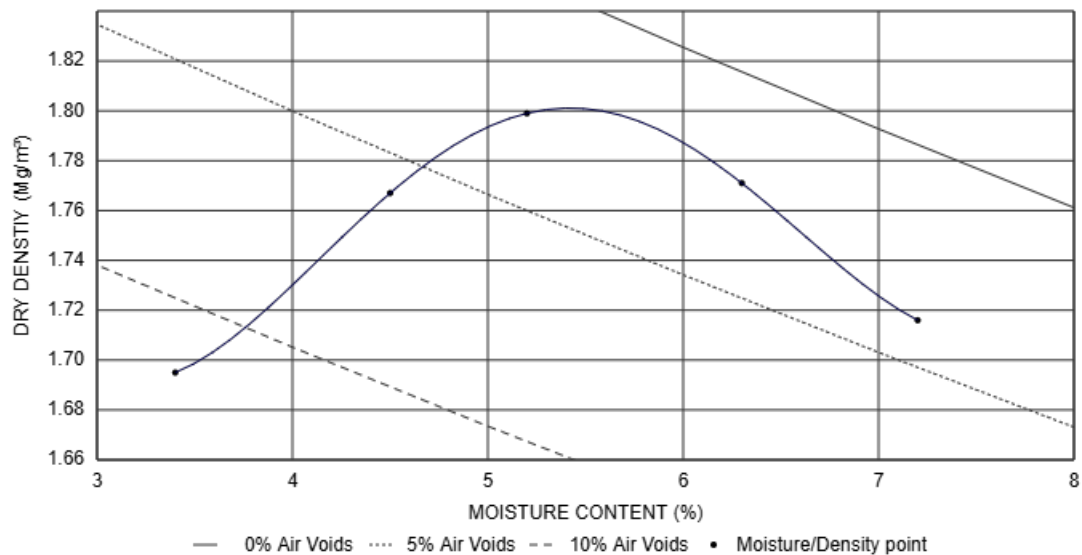
BS EN 13286-4: 2021 - Vibrating Hammer

REPORT NUMBER:	C5001518 / 355950.5.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	561344	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	355950.1.1.2	SITE:	Leaside Road, Tottenham
DATE SAMPLED:	01/07/2025	SUPPLIER/SOURCE:	Site won, Site won
SAMPLED BY:	Kyle Ager	MATERIAL:	Grey slightly silty GRAVEL with COBBLES 1a
DATE RECEIVED:	02/07/2025	LOCATION:	Near to surface
DATE COMPLETED:	04/08/2025	COMPACTION SAMPLE:	Separate samples
TESTED BY:	HM, BV, PE	SAMPLING PLAN:	CTS procedure TP22
TYPE OF SAMPLE:	Disturbed	SAMPLING METHOD:	C1 Sampling from large conical stockpiles
HAMMER MAKE/MODEL:	Hikoki		
ENVIRONMENTAL CONDITIONS:	Sunny		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.80 Mg/m³
OPTIMUM WATER CONTENT: 5.5 %
AMOUNT (By Dry Mass) RETAINED >40.0mm: 61 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.05 Mg/m³

MOISTURE CONTENT / DRY DENSITY RELATIONSHIP



Non-standard test as material classified as unsuitable, sample tested at clients request, test results may not be indicative of the material being used on site.

Remarks:
Test results reported relate only to the items tested.
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Report Format: BSENMcvib/TP34/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager

Approved Signatory
Report date 04-Aug-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



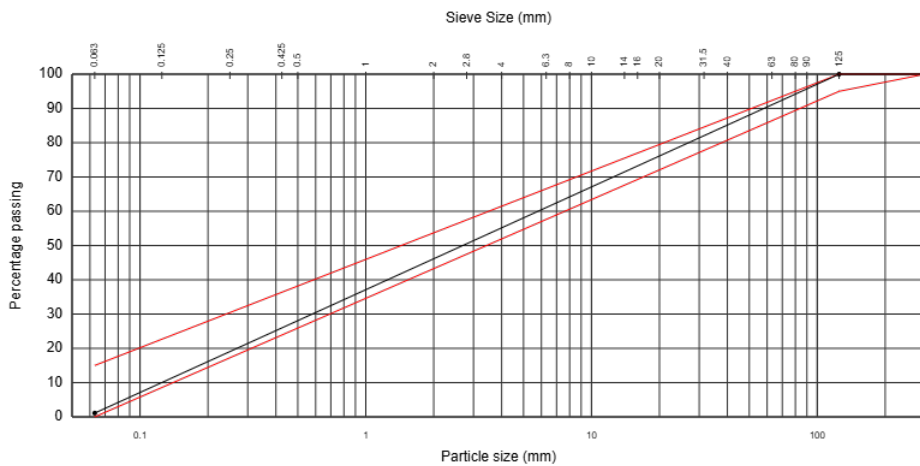
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TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS EN 933-1 : 2012 Washing & Dry Sieving

REPORT NUMBER:	C5001518 / 355950.6.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	561344	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	1a stockpile 010	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	01/07/2025	SOURCE / SUPPLIER:	Site won, Site won
SAMPLED BY:	Kyle Ager	MATERIAL:	Grey slightly silty GRAVEL with COBBLES
DATE RECEIVED:	02/07/2025	PROPOSED CLASSIFICATION:	Class 1A
DATE COMPLETED:	16/07/2025	LOCATION:	1a stockpile 010
TESTED BY:	RK, BV	SAMPLING PLAN:	CTS procedure TP22
ENVIRONMENTAL CONDITIONS:	Sunny	METHOD OF SAMPLING:	C1 Sampling from large conical stockpiles

RESULT Test Location: CTS Heathrow



Applied Specification: Class 1A - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 1A
Specification stated as requested, no indication of conformity applied

Uniformity Coefficient (D₆₀/D₁₀) 8 * (Lower limit 10)
BS EN ISO 14688-2: 2018.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	100 - 100
125	100	95 - 100
90	98	
80	95	
63	72	
40	39	
31.5	32	
20	22	
16	19	
14	17	
10	13	
8	11	
6.3	9	
4	6	
2.8	5	
2	4	
1	3	
0.5	2	
0.425	2	
0.25	1	
0.125	1	
0.063	1.1	0 - 15

Remarks:

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For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 16-Jul-25

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Report Format: PSDagg/TP17/Rep Issue 1 Rev 1 08/23

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END OF REPORT

DETERMINATION OF WATER CONTENT OF AGGREGATE

BS EN 1097-5: 2008 - Drying in a ventilated oven

REPORT NUMBER: C5001518 / 355950.4.1.2
SAMPLE NUMBER: See Below
CLIENT: ERITH CONTRACTORS LTD
CLIENT REF: See Below
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE SAMPLED: 01/07/2025
SITE: Leaside Road, Tottenham
SAMPLED BY: Kyle Ager
SUPPLIER: Site won, Site won
DATE RECEIVED: 02/07/2025
MATERIAL: See Below
DATE COMPLETED: 11/07/2025
LOCATION: See Below
TESTED BY: RK, BV
PREPARATION METHOD: BS EN 932-2
TYPE OF SAMPLE: Disturbed
SAMPLING PLAN: CTS procedure TP22
ENVIRONMENTAL CONDITIONS: Sunny
METHOD OF SAMPLING: C1 Sampling from large conical stockpiles

RESULT Test Location: CTS Heathrow

SAMPLE NO.	CLIENT REF.	LOCATION	MATERIAL DESCRIPTION	NOMINAL SIZE	WATER CONTENT (%)	LOWER LIMIT	UPPER LIMIT
561344	1a stockpile 010	Near to surface	Grey slightly silty GRAVEL with COBBLES	90	4.0	NA	NA

No specification requirements.

Remarks:

Test results reported relate only to the items tested.
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END OF REPORT

For and on behalf of CTS
Shah Alam - Acting Laboratory Manager



Approved Signatory
Report date 11-Jul-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

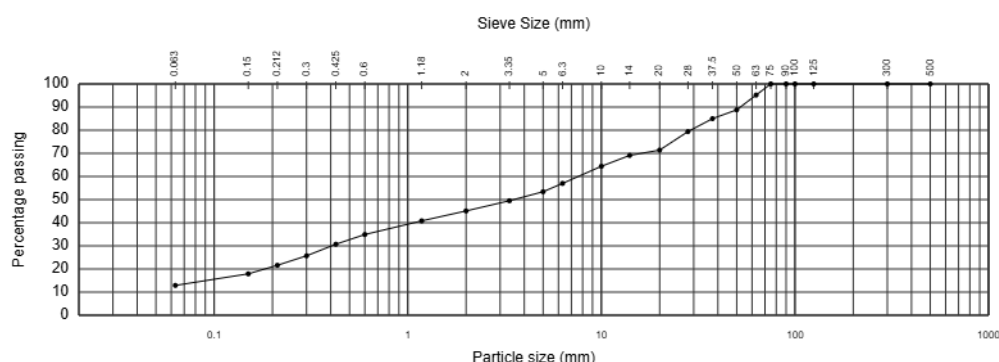
BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330527.11.1.1
 SAMPLE NUMBER: 522331
 CLIENT REF: 5001518
 DATE SAMPLED: 24/01/2025
 SAMPLED BY: Daniel O'Reilly
 DATE RECEIVED: 27/01/2025
 DATE COMPLETED: 04/02/2025
 TESTED BY: RK, BV
 TYPE OF SAMPLE: Disturbed
 VARIATIONS: No variations
 METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
 ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
 ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
 SITE: Leaside Road, Tottenham
 SOURCE / SUPPLIER: Rms recycled materials supplied , Silvertown
 MATERIAL DESCRIPTION: Brown slightly sandy clayey GRAVEL
 PROPOSED CLASSIFICATION:
 LOCATION: 6a stockpile
 PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
 SAMPLING PLAN: Client Specification
 LOCATION AND ORIENTATION WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow

SIEVE ANALYSIS



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
 Percentage COBBLES: 5%
 Percentage GRAVEL: 50%
 Percentage SAND: 32%
 Percentage SILT/CLAY: 13%

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	95	
50	89	
37.5	85	
28	79	
20	71	
14	69	
10	64	
6.3	57	
5	53	
3.35	50	
2	45	
1.18	41	
0.6	35	
0.425	31	
0.3	26	
0.212	22	
0.15	18	
0.063	13	

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For and on behalf of CTS
 Sasha Mahon - Laboratory Manager



Approved Signatory
 Report date 04-Feb-25

Construction Testing Solutions Ltd.
 Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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 END OF REPORT

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330527.15.1.1

SAMPLE NUMBER: 522379

CLIENT REF: 5001518

DATE SAMPLED: 24/01/2025

SAMPLED BY: Daniel O'Reilly

DATE RECEIVED: 27/01/2025

DATE COMPLETED: 04/02/2025

TESTED BY: RK, BV

TYPE OF SAMPLE: Disturbed

VARIATIONS: No variations

METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles

ENVIRONMENTAL CONDITIONS: Overcast

CLIENT:

ERITH CONTRACTORS LTD

ADDRESS:

Erith House, 7 Queen Street, Erith, Kent, DA8 1RP

SITE:

Leeside Road, Tottenham

SOURCE / SUPPLIER:

Rms recycled materials supplied , Silvertown

MATERIAL DESCRIPTION:

Multicoloured slightly silty slightly sandy slightly clayey GRAVEL

PROPOSED CLASSIFICATION:

LOCATION: Material mound

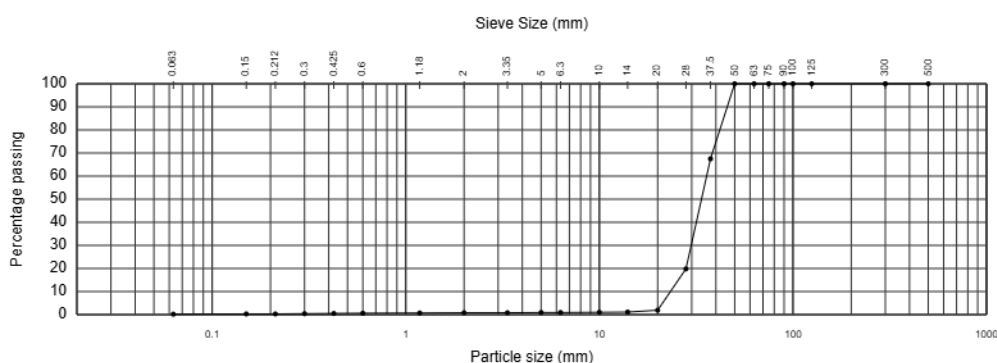
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5

SAMPLING PLAN: Client Specification

LOCATION AND ORIENTATION WITHIN SAMPLE: N/A

RESULT Test Location: CTS Heathrow

SIEVE ANALYSIS



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	63	200
0.020	0.063	0.20	0.63	2.0	6.3	20		
SILT/CLAY	SAND			GRAVEL				

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 99%
Percentage SAND: 1%
Percentage SILT/CLAY: 0%

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	68	
28	20	
20	2	
14	1	
10	1	
6.3	1	
5	1	
3.35	1	
2	1	
1.18	1	
0.6	1	
0.425	1	
0.3	0	
0.212	0	
0.15	0	
0.063	0	

Remarks:

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 04-Feb-25

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END OF REPORT

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

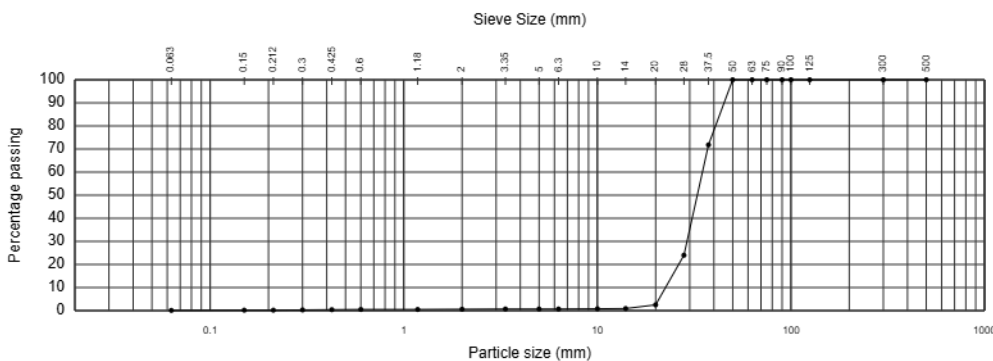
REPORT NUMBER: C5001518 / 330527.17.1.1
SAMPLE NUMBER: 522380
CLIENT REF: 5001518
DATE SAMPLED: 24/01/2025
SAMPLED BY: Daniel O'Reilly
DATE RECEIVED: 27/01/2025

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Rms recycled materials supplied , Silvertown
MATERIAL DESCRIPTION: Multicoloured slightly silty slightly sandy slightly clayey GRAVEL

DATE COMPLETED: 04/02/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

PROPOSED CLASSIFICATION:
LOCATION: Material mound
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: Client Specification
LOCATION AND ORIENTATION WITHIN SAMPLE: N/A

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 99%
Percentage SAND: 1%
Percentage SILT/CLAY: 0%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	72	
28	24	
20	3	
14	1	
10	1	
6.3	1	
5	1	
3.35	1	
2	1	
1.18	1	
0.6	1	
0.425	0	
0.3	0	
0.212	0	
0.15	0	
0.063	0	

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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 04-Feb-25

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END OF REPORT

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330527.16.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	522379	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	24/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Daniel O'Reily	MATERIAL:	Multicoloured slightly silty slightly sandy slightly clayey GRAVEL
DATE RECEIVED:	27/01/2025	SUPPLIER:	Rms recycled materials supplied , Silvertown
DATE COMPLETED:	04/02/2025	SOURCE:	Silvertown
TESTED BY:	Husain Mohammad	SAMPLE LOCATION:	Material mound
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	Client Specification
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 0.984

Penetration A 20.5mm, Water content A: 37.6%

Penetration B 20.8mm, Water content B: 37.1%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	37%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	Non plastic	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	Not available		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	1%	Taken from PSD	
Initial water content determined :	6.8%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

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Sasha Mahon - Laboratory Manager



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Report date 04-Feb-25

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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330527.18.1.1		
SAMPLE NUMBER:	522380	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE SAMPLED:	24/01/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Daniel O'Reily	SITE ADDRESS:	Leeside Road, Tottenham,
DATE RECEIVED:	27/01/2025	MATERIAL:	Multicoloured slightly silty slightly sandy slightly clayey GRAVEL 6A
DATE COMPLETED:	04/02/2025	SUPPLIER:	Rms recycled materials supplied , Silvertown
TESTED BY:	Husain Mohammad	SOURCE:	Silvertown
TYPE OF SAMPLE:	Disturbed sample	SAMPLE LOCATION:	Material mound
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A	SAMPLING PLAN:	Client Specification
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1.03

Penetration A 18.0mm, Water content A: 34.4%

Penetration B 17.9mm, Water content B: 34.7%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	36%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	Non plastic	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	Not available		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	0%	Taken from PSD	
Initial water content determined :	5.7%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

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END OF REPORT

For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 04-Feb-25

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Report version 1



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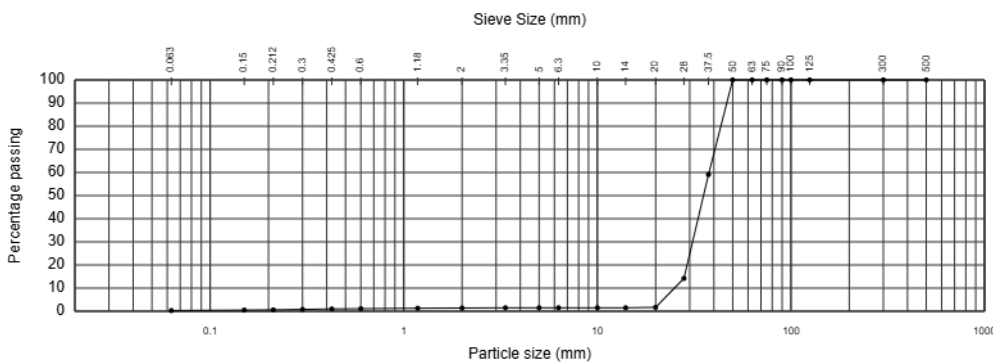
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 334682.19.1.1
SAMPLE NUMBER: 528217
CLIENT REF: 528217
DATE SAMPLED: 20/02/2025
SAMPLED BY: Aaron Henson
DATE RECEIVED: 21/02/2025
DATE COMPLETED: 07/03/2025
TESTED BY: JG, EB, CP
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Raining

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: RMS, Silvertown.
MATERIAL DESCRIPTION: Stone and Brick
PROPOSED CLASSIFICATION:
LOCATION: 6A Stockpile - 4th Round
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: Client Specification
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: MT Billericay



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 99%
Percentage SAND: 1%
Percentage SILT/CLAY: 0%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	59	
28	14	
20	2	
14	2	
10	2	
6.3	2	
5	2	
3.35	2	
2	1	
1.18	1	
0.6	1	
0.425	1	
0.3	1	
0.212	1	
0.15	1	
0.063	0	

Remarks:
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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25

Construction Testing Solutions Ltd.
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Report version 1



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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 334682.11.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528217	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528217	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Aaron Henson	MATERIAL:	Stone and Brick 6A
DATE RECEIVED:	21/02/2025	SUPPLIER:	RMS, Silvertown.
DATE COMPLETED:	11/03/2025	SOURCE:	Silvertown.
TESTED BY:	Emma Bowyer	SAMPLE LOCATION:	6A Stockpile - 4th Round
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	Client Specification
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Raining

RESULTS: Test Location: MT Billericay

Type of cone used: 80g/30°

Factor for one point test: 0.968

Penetration A 22.5mm, Water content A: 40.1%

Penetration B 22.4mm, Water content B: 40.2%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	39%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	Non plastic	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	Not available		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	1%	Taken from PSD	
Initial water content determined :	6.7%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25

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Report version 1



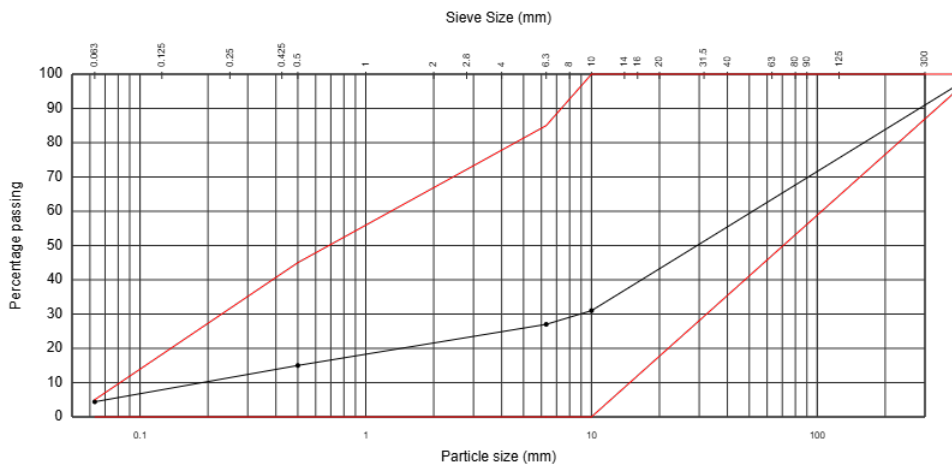
4161

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS EN 933-1 : 2012 Washing & Dry Sieving

REPORT NUMBER:	C5001518 / 338488.1.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532987	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6A	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SOURCE / SUPPLIER:	RMC, Silvertown
SAMPLED BY:	Ben Collins	MATERIAL:	6A
DATE RECEIVED:	13/03/2025	PROPOSED CLASSIFICATION:	Class 6A - Off Site
DATE COMPLETED:	17/03/2025	LOCATION:	Site Stockpile
TESTED BY:	RH, CG, jo	SAMPLING PLAN:	CTS procedure TP41
ENVIRONMENTAL CONDITIONS:	Overcast	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles

RESULT Test Location: Harrietsham Lab



Applied Specification: Class 6A - Off Site - Specification for Highway Works (2016) Table 6/5 Earthworks Materials - Class 6A
Specification stated as requested, no indication of conformity applied

Uniformity Coefficient (D60/D10) 163 (Lower limit 10)
BS EN ISO 14688-2: 2018.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	100 - 100
300	100	
125	100	
90	89	
80	75	
63	64	
40	54	
31.5	47	
20	41	
16	38	
14	36	
10	31	0 - 100
8	29	
6.3	27	0 - 85
4	24	
2.8	23	
2	22	
1	19	
0.5	15	0 - 45
0.425	13	
0.25	8	
0.125	5	
0.063	4.4	0 - 5

Remarks:

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Report Format: PSDagg/TP17/Rep Issue 1 Rev 1 08/23

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Harrietsham, Nr Maidstone
Kent ME17 1QW

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 17-Mar-25

Construction Testing Solutions Ltd.
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4161

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 337922.10.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532987	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6A	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Ben Collins	MATERIAL:	6A
DATE RECEIVED:	13/03/2025	SUPPLIER:	RMC, Silvertown
DATE COMPLETED:	20/03/2025	SOURCE:	Silvertown
TESTED BY:	Angela Pike-Robinson	SAMPLE LOCATION:	Site Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

RESULTS: Test Location: Harrietsham Lab

Type of cone used: 80g/30°

Factor for one point test: 0.968

Penetration A 21.7mm, Water content A: 37.8%

Penetration B 21.7mm, Water content B: 38.1%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	37%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	Non plastic	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	Not available		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	13%	Taken from PSD	
Initial water content determined :	8.7%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

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For and on behalf of CTS

Mike Gray - Laboratory Supervisor



Approved Signatory

Report date 20-Mar-25

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Report Format: PI/TP04/Rep Issue 1 Rev 2 04/24

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END OF REPORT

Report version 1

Page 1 of 1

DETERMINATION OF BINDER CONTENT

BS EN 12697-1: 2020 Clauses B.1.4.4 Bottle Rotation and B.2.2 Pressure Filter

REPORT NUMBER:	C5001518 / 337922.19.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532988	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	337922.11.1.1	MATERIAL:	6F5
DATE SAMPLED:	12/03/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Ben Collins	AGGREGATE:	Unknown
DATE RECEIVED:	13/03/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	25/03/2025	TICKET No:	Unknown
TESTED BY:	Casey Bassant	LOCATION:	Site Stockpile
SAMPLING CERTIFICATE:	Yes	DEVIATIONS:	None
SAMPLING PLAN:	CTS procedure TP41		

RESULT: Test Location: Harrietsham Lab

		Specification Limits
SOLUBLE BINDER CONTENT	4.4%	

Remarks:

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Report Format: BitDiff/TP56/Rep Issue 1 Rev 2 02/24

Northdown House, Ashford Road
Harrietsham, Nr Maidstone
Kent ME17 1QW

0343 227 8545
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END OF REPORT

For and on behalf of CTS
Dan Gay - Regional Laboratory Manager



Approved Signatory
Report date 26-Mar-25

Construction Testing Solutions Ltd.
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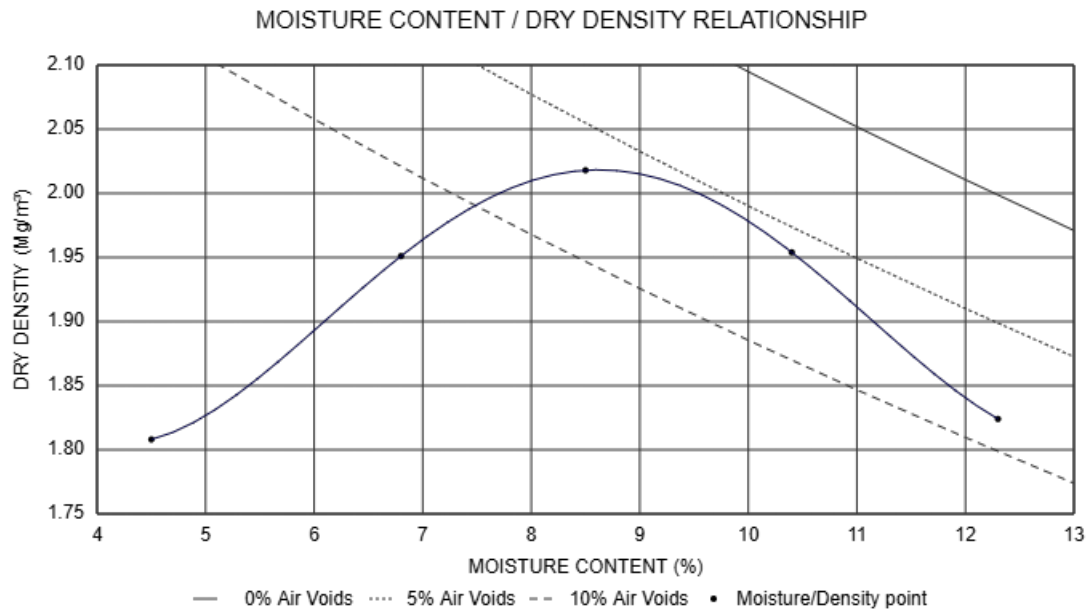
DETERMINATION OF REFERENCE DENSITY AND WATER CONTENT

BS EN 13286-4: 2021 - Vibrating Hammer

REPORT NUMBER:	C5001518 / 337922.21.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532988	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	337922.11.1.1	SITE:	Leaside Road, Tottenham
DATE SAMPLED:	12/03/2025	SUPPLIER/SOURCE:	Not Specified, Not Specified
SAMPLED BY:	Ben Collins	MATERIAL:	6F5
DATE RECEIVED:	13/03/2025	LOCATION:	Site Stockpile
DATE COMPLETED:	25/03/2025	COMPACTION SAMPLE:	Separate samples
TESTED BY:	RH, BC	SAMPLING PLAN:	CTS procedure TP41
TYPE OF SAMPLE:	Disturbed	SAMPLING METHOD:	Method 4: Sampling material from heaps / stockpiles
HAMMER MAKE/MODEL:	Makita		
ENVIRONMENTAL CONDITIONS:	Overcast		

RESULT Test Location: Harrietsham Lab

MAXIMUM DRY DENSITY: 2.02 Mg/m³
OPTIMUM WATER CONTENT: 8.5 %
AMOUNT (By Dry Mass) RETAINED >40.0mm: 34 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³



Remarks:
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Report Format: BSENM CVib/TP34/Rep Issue 1 Rev 1 09/23

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Kent ME17 1QW

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END OF REPORT

For and on behalf of CTS
Dan Gay - Regional Laboratory Manager

DG

Approved Signatory
Report date 25-Mar-25

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DETERMINATION OF RESISTANCE OF COARSE AGGREGATE TO FRAGMENTATION

Los Angeles Test BS EN 1097-2: 2020

REPORT NUMBER:	C5001518 / 337922.14.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	533857	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE RECEIVED:	19/03/2025	SUPPLIER:	Not Specified
DATE SAMPLED:	12/03/2025	SOURCE:	Not Specified
DATE COMPLETED:	26/03/2025	MATERIAL:	6F5
TESTED BY:	Colin Gourlay	LOCATION:	Site Stockpile
ACCEPTABLE STANDARD:	Contract Specification	SAMPLING CERTIFICATE:	Available
SAMPLING PLAN:	Client Provided	ENVIRONMENTAL CONDITIONS:	Overcast
METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles		

TEST RESULT: Test Location: Harritsham

SPECIFICATION REQUIREMENTS

	LOWER LIMIT	UPPER LIMIT
THE LOS ANGELES COEFFICIENT (LA)::	41	50
SIZE FRACTION FROM WHICH TEST PORTION WAS OBTAINED:	10-14 mm	

Remarks:

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Report Format: LA/TP19/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 26-Mar-25

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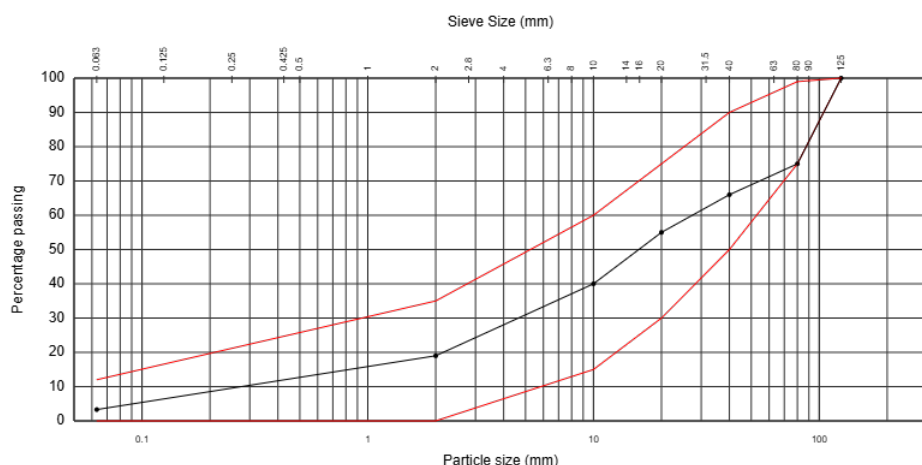
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TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS EN 933-1 : 2012 Washing & Dry Sieving

REPORT NUMBER:	C5001518 / 337922.22.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532988	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SOURCE / SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Ben Collins	MATERIAL:	6F5
DATE RECEIVED:	13/03/2025	PROPOSED CLASSIFICATION:	Class 6F5
DATE COMPLETED:	20/03/2025	LOCATION:	Site Stockpile
TESTED BY:	RH, CG, jo	SAMPLING PLAN:	CTS procedure TP41
ENVIRONMENTAL CONDITIONS:	Overcast	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles

RESULT Test Location: Harrietsham Lab



Applied Specification: Class 6F5 - Specification for Highway Works (2016) Table 6/5 Earthworks Materials - Class 6F5
Specification stated as requested, no indication of conformity applied

Uniformity Coefficient (D60/D10) 47
BS EN ISO 14688-2: 2018.

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
90	83	
80	75	75 - 99
63	69	
40	66	50 - 90
31.5	62	
20	55	30 - 75
16	52	
14	49	
10	40	15 - 60
8	36	
6.3	32	
4	26	
2.8	22	
2	19	0 - 35
1	13	
0.5	9	
0.425	8	
0.25	6	
0.125	4	
0.063	3.3	0 - 12

Remarks:

Test results reported relate only to the items tested.
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For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 20-Mar-25



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Report Format: PSDagg/TP17/Rep Issue 1 Rev 1 08/23

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END OF REPORT

Construction Testing Solutions Ltd.
Registered in England No. 05998333

TEST REPORT :
DETERMINATION OF THE GEOMETRICAL PROPERTIES OF AGGREGATE

BSEN 933-11:2009 Classification Test For The Constituents Of Coarse Recycled Aggregate

REPORT No.:	5001518 / 337922.20.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	532988	ADDRESS:	Erith House
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	12/03/2025	SUPPLIER:	Not Specified
SAMPLED BY:	Ben Collins	MATERIAL:	6F5
DATE RECEIVED:	13/03/2025	LOCATION:	Site Stockpile
DATE TEST COMPLETED:	20/03/2025	ACCEPT STD:	Contract Specification
TESTED BY:	AR	SAMPLING CERT.:	Available
DRYING TEMPERATURE:	40 ± 5°C		

TEST RESULT:

	<u>CONSTITUENT</u>	<u>FOUND PROPORTION</u>	<u>SPECIFICATION (%)</u>
Rc -	Concrete, concrete products & concrete masonry units.	68.2 %	Not Specified
Ru -	Unbound aggregate, natural stone & Hydraulically bound aggregate.	19 %	Not Specified
	(% of CHALK found within Ru)	0.0 %	
Rb -	Clay masonry units (ie.bricks & tiles), calcium silicate masonry units & aerated non-floating concrete	12.5 %	Not Specified
Ra -	Bituminous Material	0 %	50
Rg -	Glass	0.2 %	Not Specified
X -	Other: Cohesive (ie clay & soil), gypsum plaster, miscellaneous - metals (ferrous & non ferrous), non-floating wood, plastic & rubber.	0.0 %	1.0
FL -	Floating Particles	0.0 cm ³ /kg	Not Specified

REMARKS:

The material supplied complies with the specification limits stated
 Test results reported relate only to the items tested.
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Remaining sample will be retained for a minimum of 28 days from date of report.

For and on behalf of CTS



Chris Davidson - Regional Laboratories Manager
 Dan Gay - Laboratory Manager
 Matt Butt - Operations Manager
 Mike Gray - Laboratory Supervisor



4161

Page 1 of 1

Report Format: L/Rep A16/rev.1

Approved signatory
 20-Mar-25

DETERMINATION OF RESISTANCE OF COARSE AGGREGATE TO FRAGMENTATION

Los Angeles Test BS EN 1097-2: 2020

REPORT NUMBER:	C5001518 / 337922.14.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	533862	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE RECEIVED:	19/03/2025	SUPPLIER:	Not Specified
DATE SAMPLED:	12/03/2025	SOURCE:	Not Specified
DATE COMPLETED:	26/03/2025	MATERIAL:	6F5
TESTED BY:	Colin Gourlay	LOCATION:	Site Stockpile
ACCEPTABLE STANDARD:	Contract Specification	SAMPLING CERTIFICATE:	Available
SAMPLING PLAN:	Client Provided	ENVIRONMENTAL CONDITIONS:	Overcast
METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles		

TEST RESULT: Test Location: Harritsham

SPECIFICATION REQUIREMENTS

	LOWER LIMIT	UPPER LIMIT
THE LOS ANGELES COEFFICIENT (LA)::	37	50
SIZE FRACTION FROM WHICH TEST PORTION WAS OBTAINED:	10-14 mm	

Remarks:

Test results reported relate only to the items tested.
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Report Format: LA/TP19/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 26-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF RESISTANCE OF COARSE AGGREGATE TO FRAGMENTATION

Los Angeles Test BS EN 1097-2: 2020

REPORT NUMBER:	C5001518 / 337922.14.1.3	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	532988	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	6F5	SITE:	Leeside Road, Tottenham
DATE RECEIVED:	13/03/2025	SUPPLIER:	Not Specified
DATE SAMPLED:	12/03/2025	SOURCE:	Not Specified
DATE COMPLETED:	26/03/2025	MATERIAL:	6F5
TESTED BY:	Colin Gourlay	LOCATION:	Site Stockpile
ACCEPTABLE STANDARD:	Contract Specification	SAMPLING CERTIFICATE:	Available
SAMPLING PLAN:	Client Provided	ENVIRONMENTAL CONDITIONS:	Overcast
METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles		

TEST RESULT: Test Location: Harritsham

SPECIFICATION REQUIREMENTS

	LOWER LIMIT	UPPER LIMIT
THE LOS ANGELES COEFFICIENT (LA)::	40	50
SIZE FRACTION FROM WHICH TEST PORTION WAS OBTAINED:	10-14 mm	

Remarks:

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Report Format: LA/TP19/Rep Issue 1 Rev 1 09/23

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END OF REPORT

For and on behalf of CTS
Mike Gray - Laboratory Supervisor



Approved Signatory
Report date 26-Mar-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

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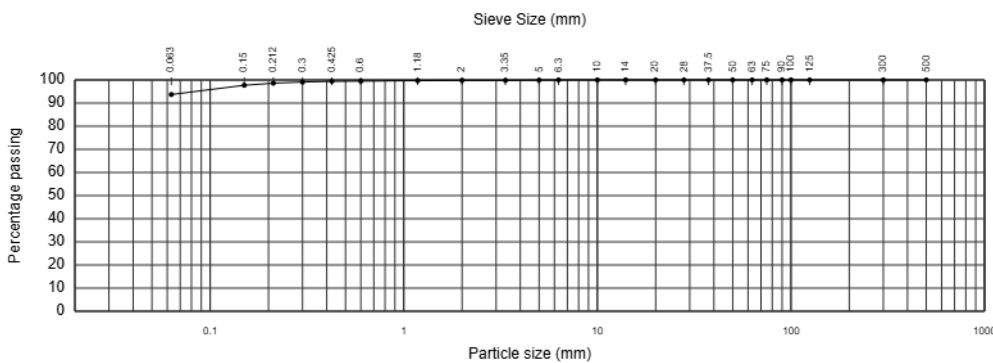
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.4.1.1
SAMPLE NUMBER: 521348
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 03/02/2025
TESTED BY: RK, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 0%
Percentage SAND: 6%
Percentage SILT/CLAY: 94%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	100	
2	100	
1.18	100	
0.6	100	
0.425	99	
0.3	99	
0.212	99	
0.15	98	
0.063	94	

Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 03-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

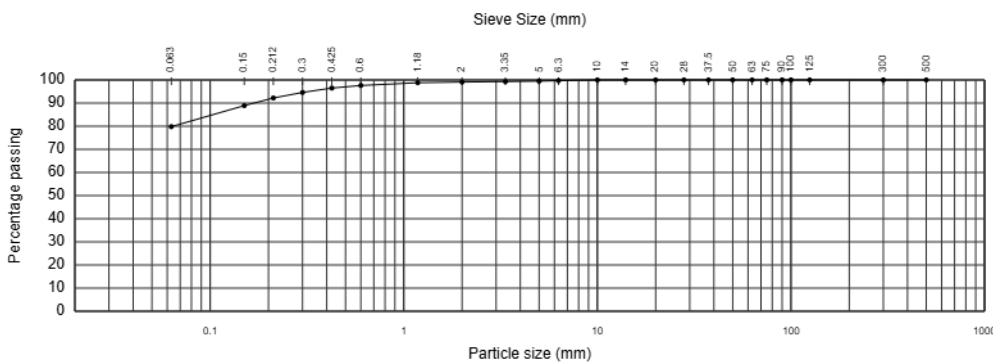
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.3.1.1
SAMPLE NUMBER: 521352
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 06/02/2025
TESTED BY: JP, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 1%
Percentage SAND: 19%
Percentage SILT/CLAY: 80%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	99	
2	99	
1.18	99	
0.6	98	
0.425	97	
0.3	95	
0.212	92	
0.15	89	
0.063	80	

Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 06-Feb-25

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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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Poyle Road
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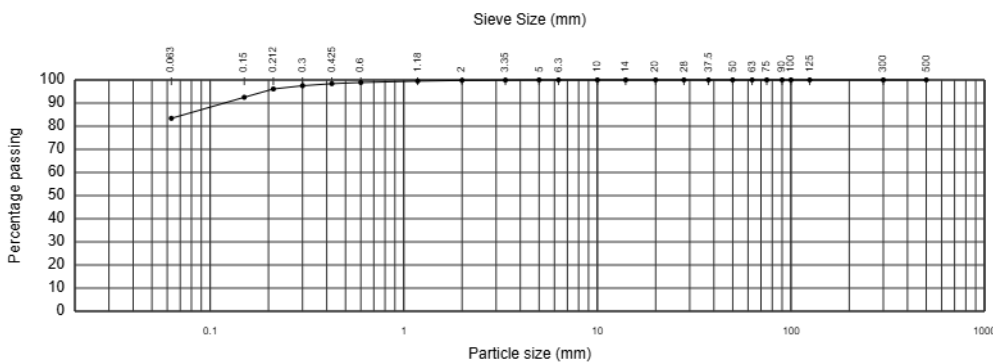
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 330657.2.1.1
SAMPLE NUMBER: 521350
CLIENT REF: 5001518
DATE SAMPLED: 20/01/2025
SAMPLED BY: Karanjit Pawaar
DATE RECEIVED: 23/01/2025
DATE COMPLETED: 03/02/2025
TESTED BY: RK, BV
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Clear

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Not Specified, Not Specified
MATERIAL DESCRIPTION: Brown slightly silty slightly sandy CLAY
PROPOSED CLASSIFICATION:
LOCATION: Stockpile
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: CTS Heathrow



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			SAND			GRAVEL		
						COBBLE		
						BOULDERS		

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 0%
Percentage SAND: 16%
Percentage SILT/CLAY: 83%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	100	
10	100	
6.3	100	
5	100	
3.35	100	
2	100	
1.18	100	
0.6	99	
0.425	98	
0.3	98	
0.212	96	
0.15	93	
0.063	83	

Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 03-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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END OF REPORT

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.12.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521348	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Clay
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	10/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, HM	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 20.5mm, Water content A: 72.5%

Penetration B 20.4mm, Water content B: 72.5%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	73%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	32%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	41%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	53.4%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

Test results reported relate only to the items tested.
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Report Format: PI/TP04/Rep Issue 1 Rev 2 04/24

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 10-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.4.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521350	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	10/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, HM	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 19.6mm, Water content A: 75.6%

Penetration B 19.7mm, Water content B: 75.5%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	76%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	35%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	41%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	53.2%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

Test results reported relate only to the items tested.

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Accreditation. The laboratory does not apply a conformity statement to test reports as

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager



Approved Signatory

Report date 10-Feb-25

Construction Testing Solutions Ltd.

Registered in England No. 05998333



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Report Format: PI/TP04/Rep Issue 1 Rev 2 04/24

Unit 12 Britannia Ind Estate

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END OF REPORT

Report version 1

Page 1 of 1

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 330611.8.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521352	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	SUPPLIER:	Not Specified, Not Specified
DATE COMPLETED:	06/02/2025	SOURCE:	Not Specified
TESTED BY:	TT, RK	SAMPLE LOCATION:	Stockpile
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Clear

RESULTS: Test Location: CTS Heathrow

Type of cone used: 80g/30°

Factor for one point test: 1

Penetration A 19.4mm, Water content A: 76.9%

Penetration B 19.9mm, Water content B: 77.0%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	77%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	27%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	50%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%	Wet-Sieving	
Initial water content determined :	50.5%		
Sample History:	The material was tested after washing through a 425µm test sieve		

Remarks:

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SL3 0BH

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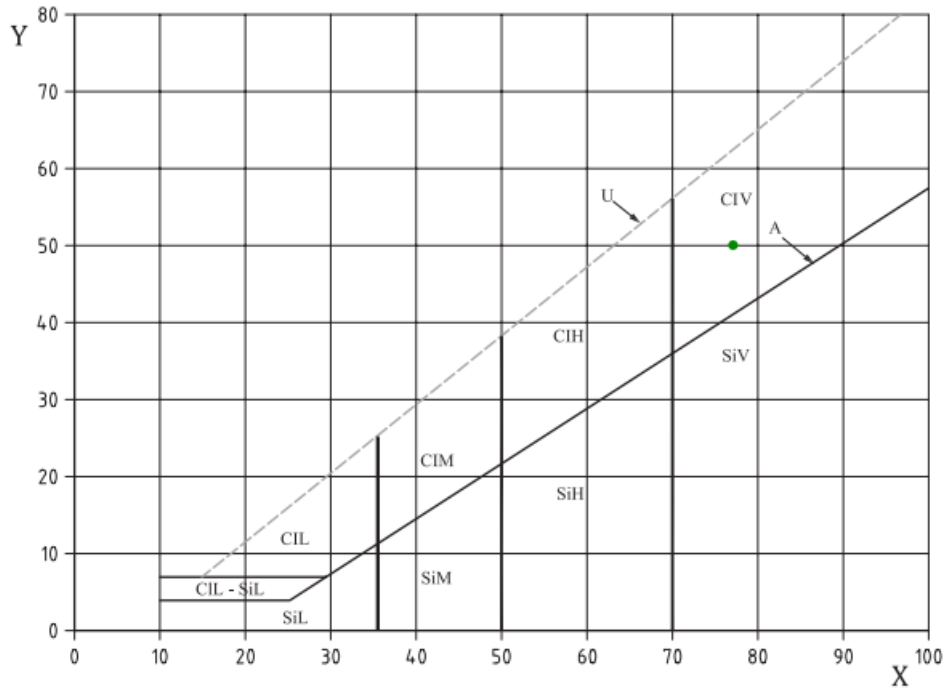
Construction Testing Solutions Ltd.
Registered in England No. 05998333

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:

C5001518 / 330611.8.1.1



Key

X liquid limit, w_L				Y plasticity index, I_P
Soil type		Plasticity		
				Liquid limit
Cl	Clay	L	Low	<35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	>70
		O	Organic	append to classification for organic material (e.g. ClHO)
U line	$I_P = 0,9 (w_L - 8)$			A line $I_P = 0,73 (w_L - 20)$

Figure 1 — Plasticity chart

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

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For and on behalf of CTS

Sasha Mahon - Laboratory Manager

Sasha Mahon

Approved Signatory

Report date 06-Feb-25

Construction Testing Solutions Ltd.

Registered in England No. 05998333

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Report Format: PI/TP04/Rep Issue 1 Rev 2 04/24

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END OF REPORT



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

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(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521348

Source: Not Specified

CTS Reference: 521348

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.18
Diameter	mm	101.35
Area	mm ²	8067.47
Volume	cm ³	816.27
Mass	g	1373
Dry Mass	g	900
Bulk Density	Mg/m ³	1.68
Dry Density	Mg/m ³	1.10
Water Content	%	52.6
Voids Ratio	-	1.404
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	47.3
Bulk Density	Mg/m ³	1.62
Dry Density	Mg/m ³	1.10

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

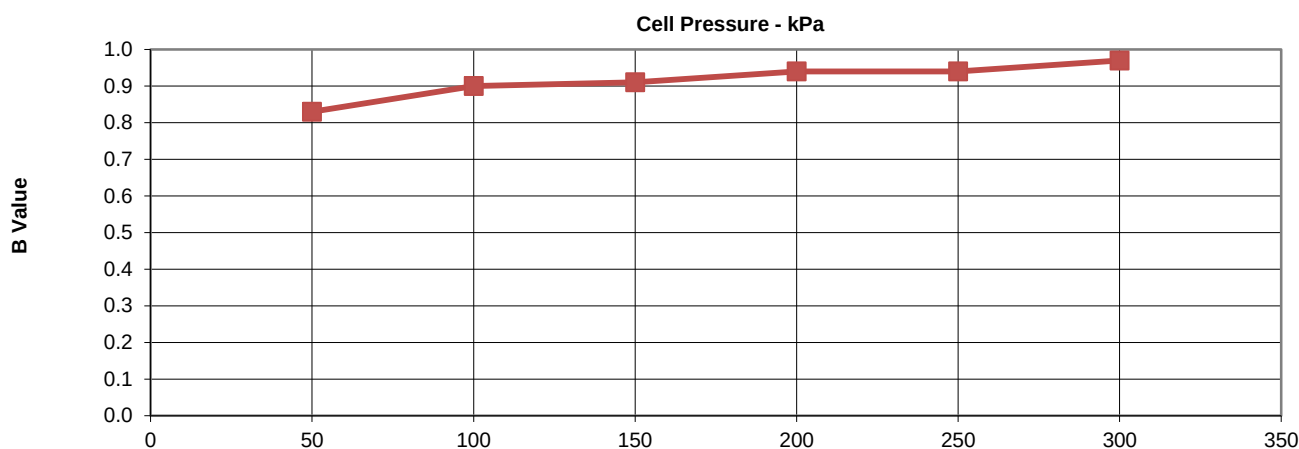
PSL25/0552

Client Ref

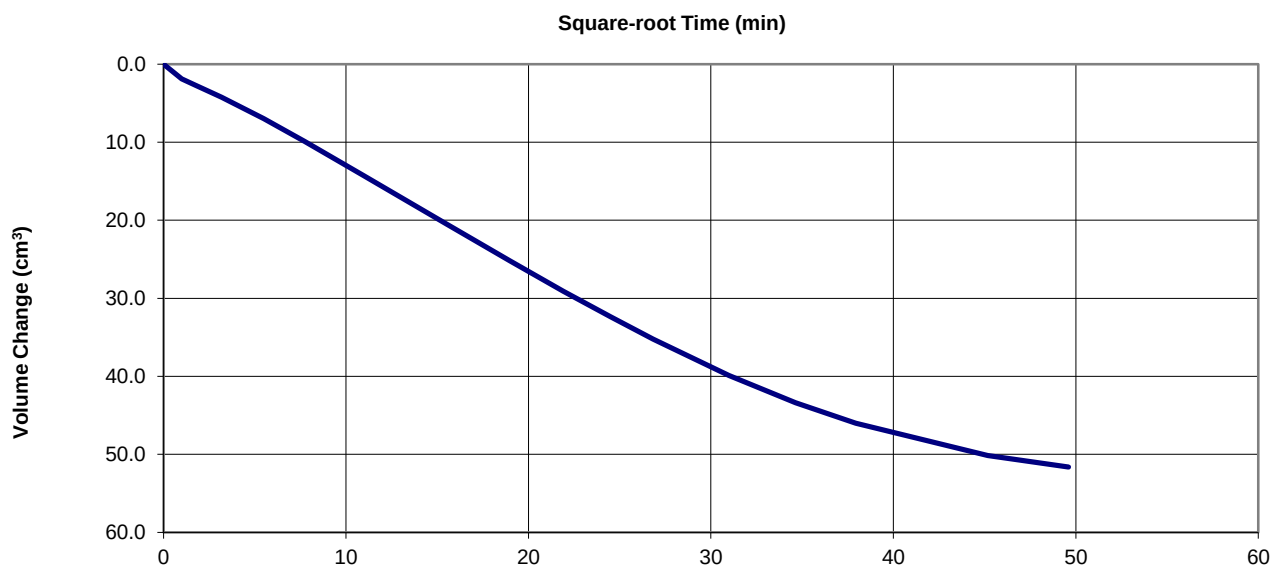
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521348
Supplier:	m	Not Specified
CTS Reference:		521348
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	300
Final B Value	-	0.97



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

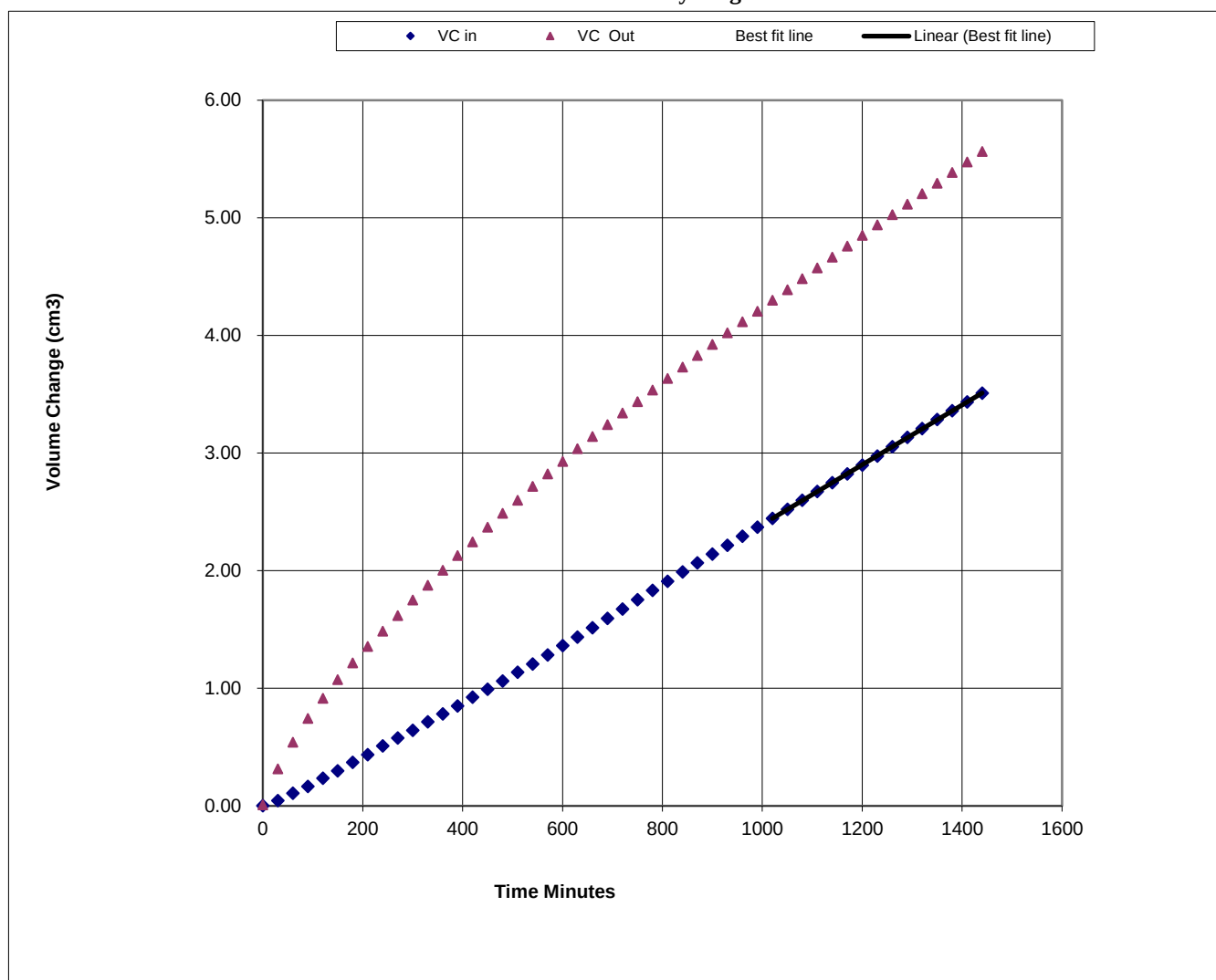
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521348
Supplier:	m	Not Specified
CTS Reference:		521348
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0025
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.6E-10



Leeside Road, Tottenham

Contract No.

PSL25/0552

Client Ref



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521350

Source: Not Specified

CTS Reference: 521350

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.32
Diameter	mm	101.39
Area	mm ²	8073.84
Volume	cm ³	818.04
Mass	g	1373
Dry Mass	g	893
Bulk Density	Mg/m ³	1.68
Dry Density	Mg/m ³	1.09
Water Content	%	53.8
Voids Ratio	-	1.428
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	47.7
Bulk Density	Mg/m ³	1.61
Dry Density	Mg/m ³	1.09

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

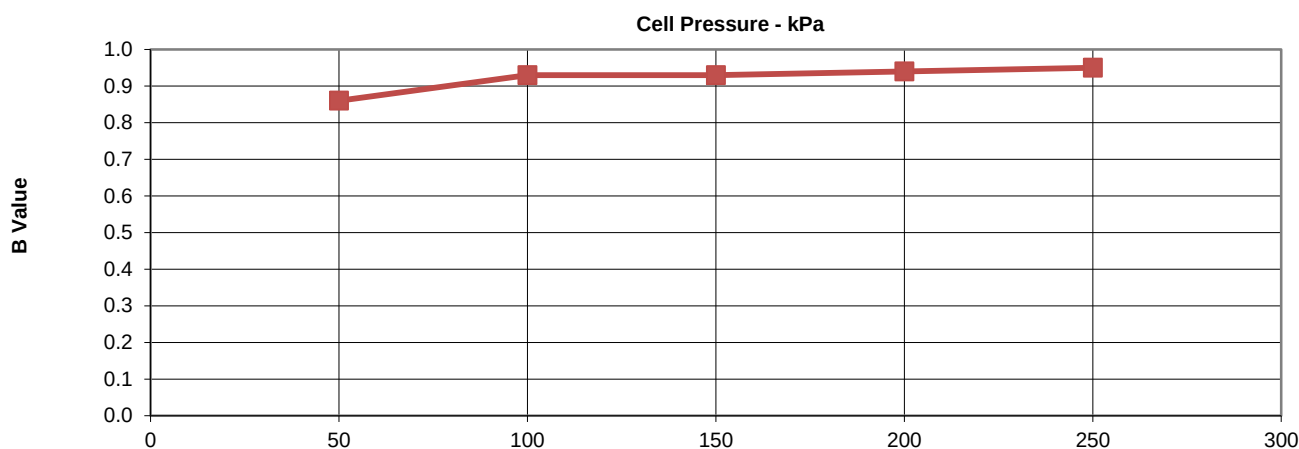
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Client Ref

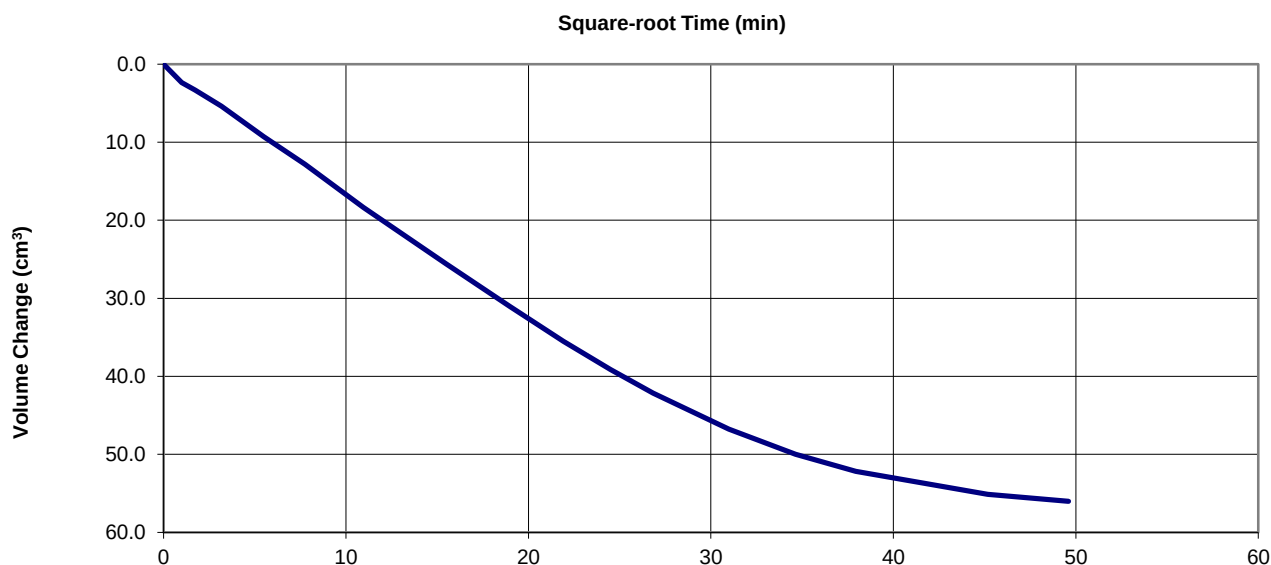
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521350
Supplier:	m	Not Specified
CTS Reference:		521350
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	250
Final B Value	-	0.95



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

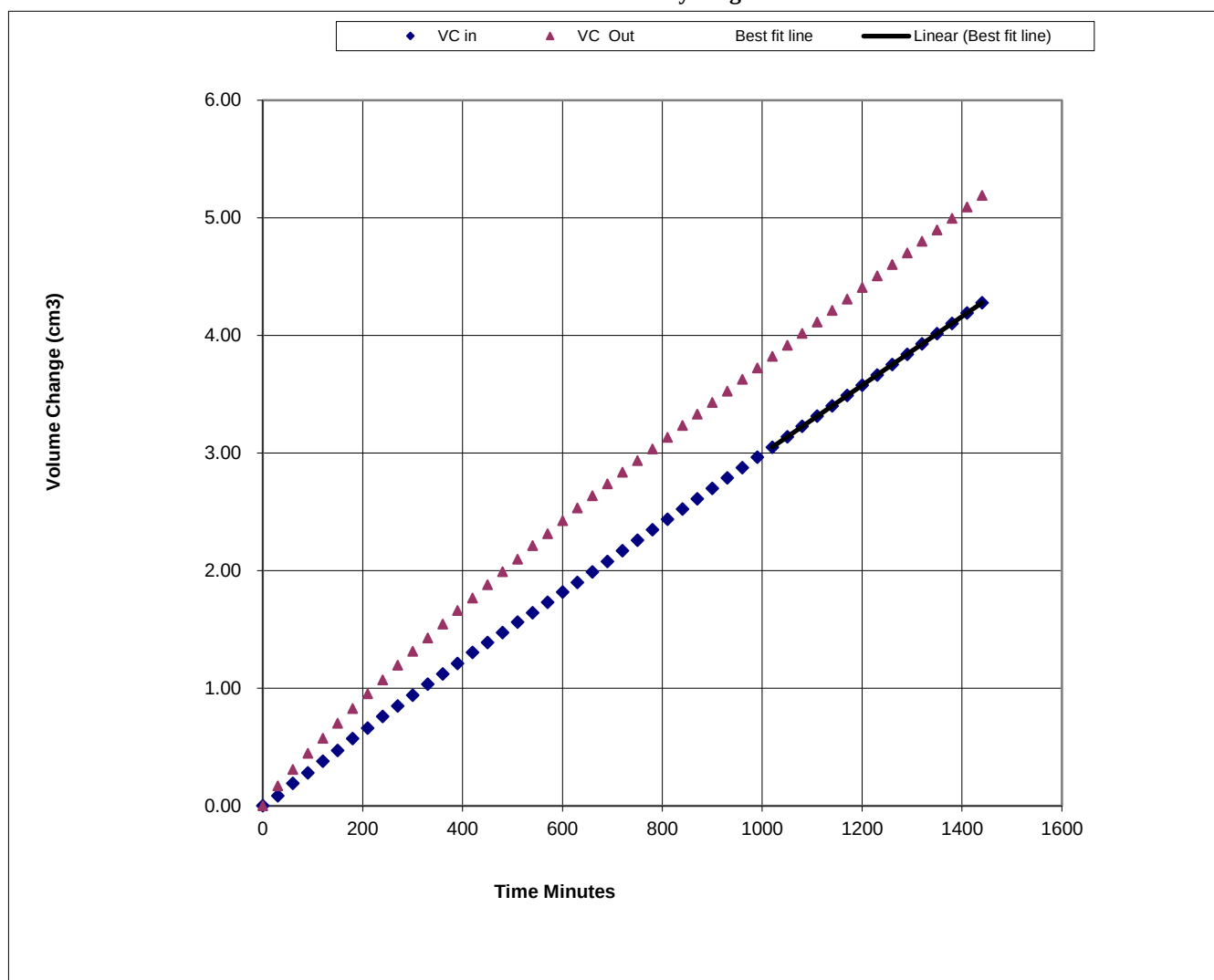
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521350
Supplier:	m	Not Specified
CTS Reference:		521350
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0029
Average Temperature	'C	20
Vertical Permeability Kv	m/s	3.0E-10



Leeside Road, Tottenham

Contract No.

PSL25/0552

Client Ref



LABORATORY REPORT



Contract Number: PSL25/0552

Report Date: 06 February 2025
Client's Reference: CTS034343
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 27/1/2025
Date Commenced: 27/1/2025
Date Completed: 6/2/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 521352

Source: Not Specified

CTS Reference: 521352

Supplier: Not Specified

Sample Type: B

Location: Stockpile

Date Sampled: 24/01/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.20
Diameter	mm	101.39
Area	mm ²	8073.84
Volume	cm ³	817.07
Mass	g	1381
Dry Mass	g	914
Bulk Density	Mg/m ³	1.69
Dry Density	Mg/m ³	1.12
Water Content	%	51.0
Voids Ratio	-	1.368
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	46.4
Bulk Density	Mg/m ³	1.64
Dry Density	Mg/m ³	1.12

Test Setup		
Date Started		29/01/2025
Date Finished		03/02/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

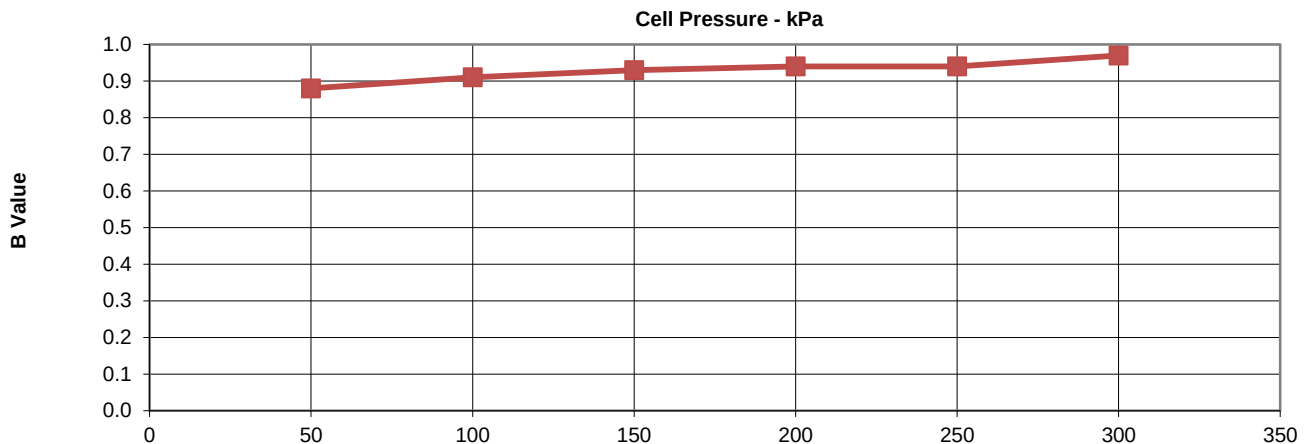
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Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521352
Supplier:	m	Not Specified
CTS Reference:		521352
Location:		Stockpile
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	300
Final B Value	-	0.97



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/0552

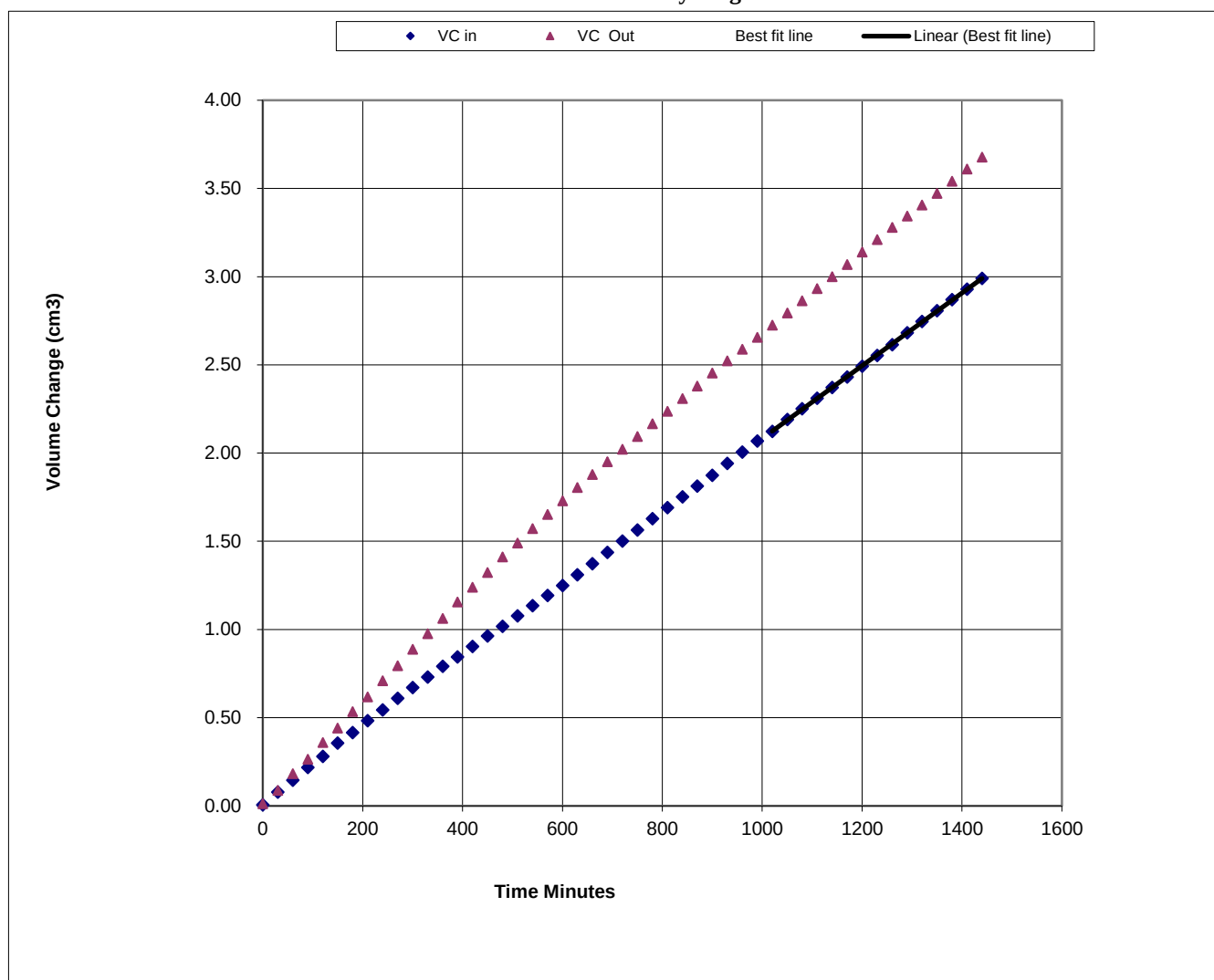
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		521352
Supplier:	m	Not Specified
CTS Reference:		521352
Location:		Stockpile

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0021
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.1E-10



Leeside Road, Tottenham

Contract No.
PSL25/0552
Client Ref

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

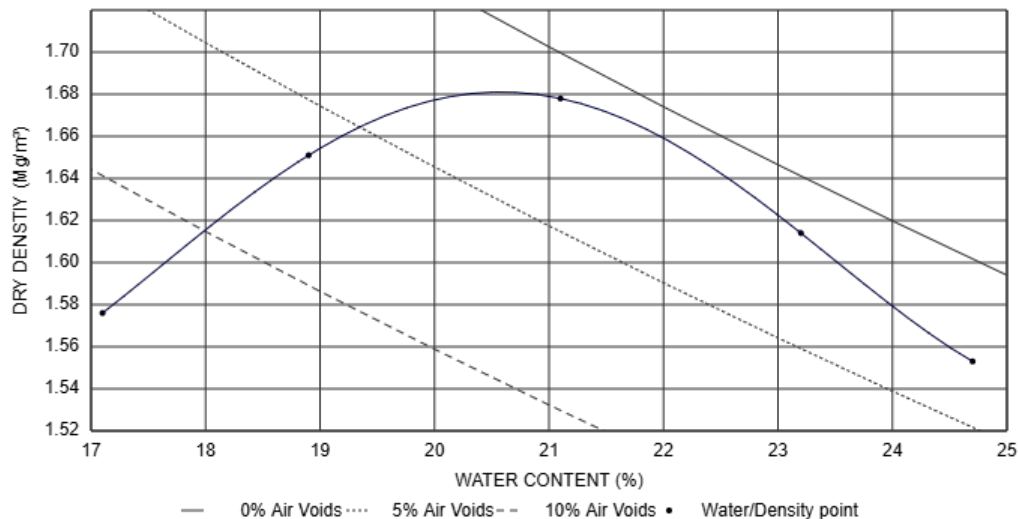
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330611.14.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521348	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	Husain Mohammad	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.68 Mg/m³
OPTIMUM WATER CONTENT: 21 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
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DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

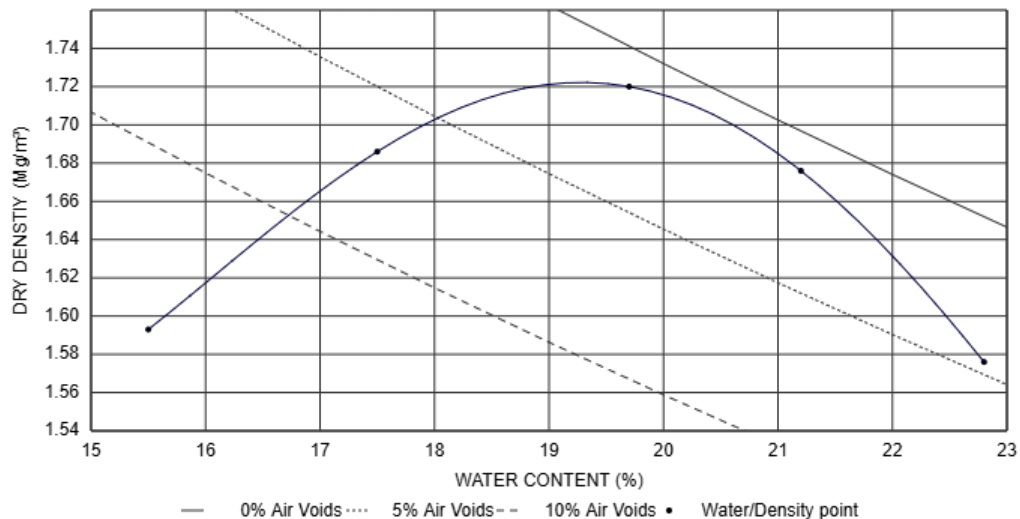
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330611.18.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521352	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	HM, JP	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.72 Mg/m³
OPTIMUM WATER CONTENT: 19 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
Test results reported relate only to the items tested.
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

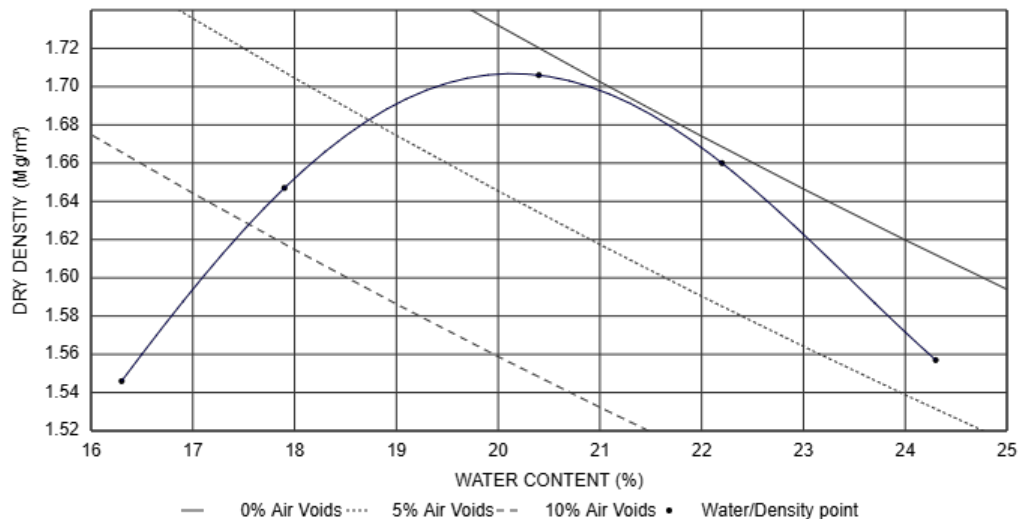
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 330657.1.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	521350	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/01/2025	SUPPLIER:	Not Specified, Not Specified
SAMPLED BY:	Karanjit Pawaar	MATERIAL:	Brown slightly silty slightly sandy CLAY
DATE RECEIVED:	23/01/2025	LOCATION:	Stockpile
DATE COMPLETED:	06/02/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	Husain Mohammad	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Clear	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.71 Mg/m³
OPTIMUM WATER CONTENT: 20 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
Test results reported relate only to the items tested.
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Approved Signatory
Report date 07-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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END OF REPORT

Report version 1

Page 1 of 1

TEST REPORT : DETERMINATION OF NUCLEAR DENSITY METER vs. MATERIAL CALIBRATION

BS 1377-9: 1990 cl 2.5.5.2 : Single box - As Received Moisture

REPORT No.:	5001518 / 333415.2.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE No.:	525849	ADDRESS:	Erith House
CLIENT REF:	5001518		
DATE SAMPLED:	10/02/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Earl Pioche	SUPPLIER:	Site
DATE RECEIVED:	10/02/2025	MATERIAL:	Very soft light brown very sandy silty CLAY with rare shell fragments
DATE TESTED:	13/02/2025	ACCEPT. STD:	Contract Specification
TESTED BY:	JP/EP/AP	CERTIFICATE OF SAMPLING:	Available
SAMPLING PLAN:	Client Specification		

RESULT: Test Location: Harrietsham Lab

CALIBRATION BOX DETAILS

 Bulk Density of Material in Box 1.601 Mg/m³

Moisture Content of Material 63.3 %

 Moisture Density of Compacted Material 0.620 Mg/m³
NUCLEAR DENSITY METER DETAILS

N.D.M. Serial Number	NDM Bulk Density (mean of 4 readings) Mg/m ³	Bulk Density Correction	NDM Moisture Density (mean of 4 readings) Mg/m ³	Moisture Density Correction
15414 (200)	1.587	1.009	0.615	1.009

COMMENTS:

For and on behalf of Construction Testing Solutions



● Sasha Mahon - Laboratory Manager

Page 1 of 1

Format : L/Rep NDMBOXCALs/rev.3

Approved Signatory

18-Feb-25



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END OF REPORT

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

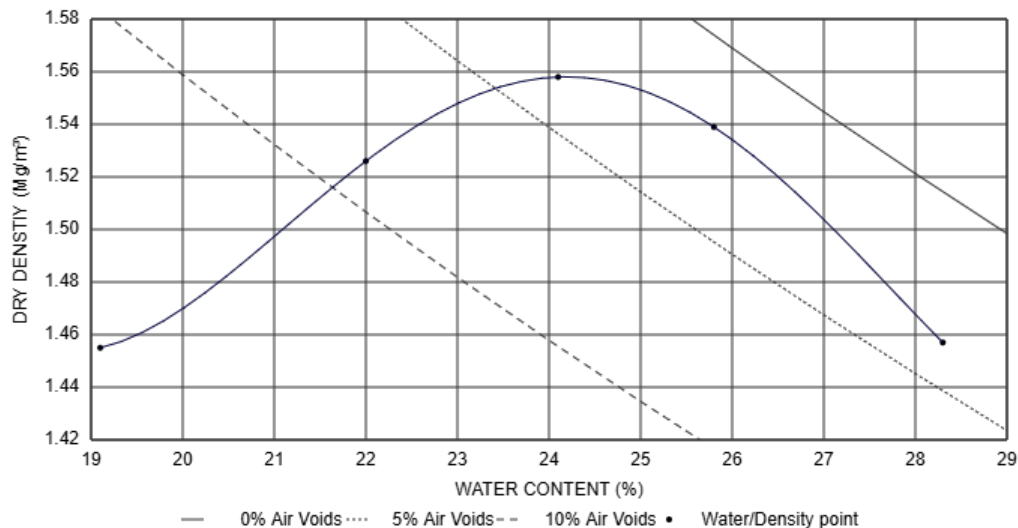
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 333415.1.1.1		
SAMPLE NUMBER:	525849	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE SAMPLED:	10/02/2025	SITE:	Leeside Road, Tottenham
SAMPLED BY:	Earl Pioche	SUPPLIER:	Site, In-situ site won
DATE RECEIVED:	10/02/2025	MATERIAL:	Very soft light brown very sandy silty CLAY with rare shell fragments
DATE COMPLETED:	14/02/2025	LOCATION:	Erith site compound Leeside road, Tottenham
TESTED BY:	HM, JP	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.4)
TYPE OF SAMPLE:	Disturbed	COMPACTION SAMPLE:	
VARIATIONS:	None	SAMPLING PLAN:	CTS procedure TP41
ENVIRONMENTAL CONDITIONS:	Overcast	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
LOCATION AND ORIENTATION:	N/A	GRADING ZONE:	2

RESULT Test Location: CTS Heathrow

MAXIMUM DRY DENSITY: 1.56 Mg/m³
OPTIMUM WATER CONTENT: 24 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 1 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:
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For and on behalf of CTS
Sasha Mahon - Laboratory Manager

Sasha Mahon

Approved Signatory
Report date 18-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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Report version 1

Page 1 of 1

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.2
CLIENT REF: 5001518
DATE COMPLETED: 10/02/2025
TESTED BY: Earl Pioche
LOCATION: CLAY TEST PAD (ROLLER), CBR 02
GROUND CONDITIONS: Wet
DISTANCE FROM EDGE OF PLATE TO WALL: 0 mm
TEST DEPTH: 0mm
AIR TEMPERATURE: 4°C
SAMPLING PLAN: CTS procedure

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
LAT / LNG: 51.6048373, -0.0471406
MATERIAL: Clay
ENVIRONMENTAL CONDITIONS: Overcast
SUPPLIER: Site
SOURCE: Site won-insitu
TEST METHOD: Incremental Plate Loading
SAMPLE TAKEN: No

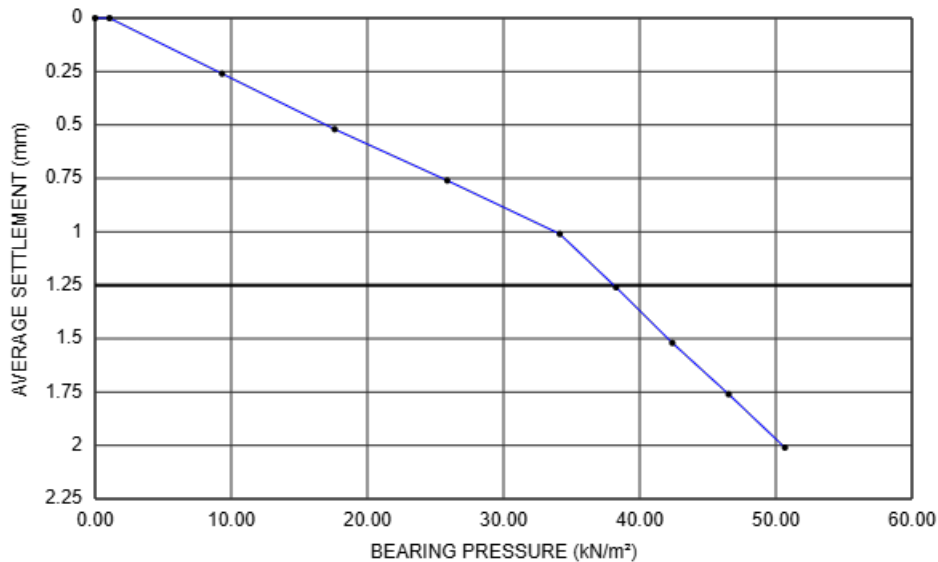
Equipment Details

Type of Kentledge: 27 Ton Excavator
Plate Diameter: 450 mm
Plate Area: 0.159043 m²
Plate Correction: 0.62

Results

Max applied pressure: 51 kN/m²
Max settlement: 2.01 mm
Avg Bearing Pressure (P) at 1.25mm penetration: 38 kN/m²
Modulus of subgrade K762: 19 kN/m²/mm
Equivalent C.B.R Value at 1.25mm penetration: 1.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 1.6 %

Remarks:

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Registered in England No. 05998333

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.2

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.2	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	9.3	-0.26	-0.21	-0.30	0.26	0.21	0.30	0.26
2.8	17.6	-0.50	-0.46	-0.59	0.50	0.46	0.59	0.52
4.1	25.9	-0.71	-0.76	-0.80	0.71	0.76	0.80	0.76
5.4	34.1	-0.97	-1.02	-1.05	0.97	1.02	1.05	1.01
6.1	38.3	-1.21	-1.24	-1.33	1.21	1.24	1.33	1.26
6.7	42.4	-1.49	-1.52	-1.55	1.49	1.52	1.55	1.52
7.4	46.5	-1.73	-1.76	-1.80	1.73	1.76	1.80	1.76
8.1	50.7	-1.96	-2.02	-2.04	1.96	2.02	2.04	2.01

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For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 10-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



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DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

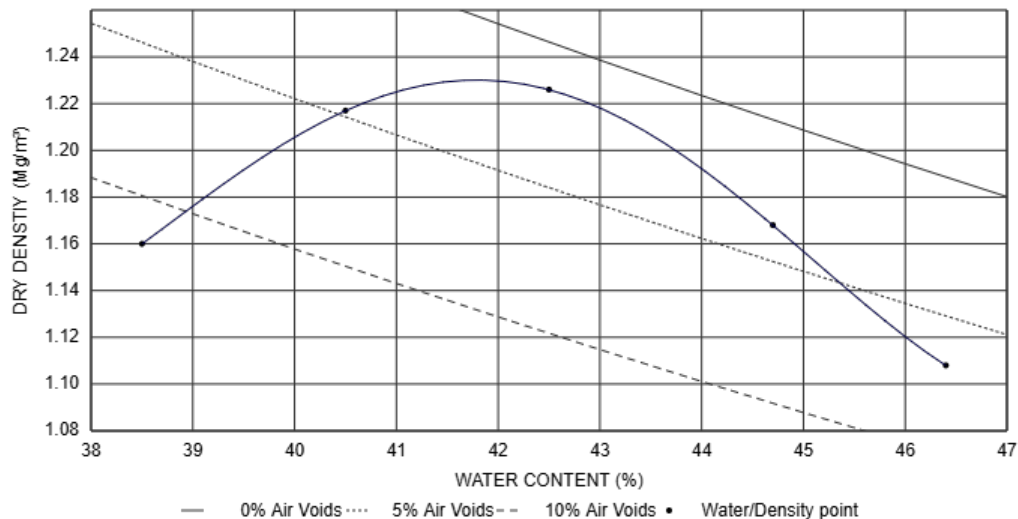
Tested in accordance with BS 1377: Part 2: 2022: clause 3.4 (2.5kg Rammer Method)

REPORT NUMBER:	C5001518 / 334682.13.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528333	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528333	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	Aggreg8, Barnston
SAMPLED BY:	Aaron Henson	MATERIAL:	Brown clay 7J
DATE RECEIVED:	21/02/2025	LOCATION:	7J Stockpile - 4th Round
DATE COMPLETED:	14/03/2025	PREPARATION METHOD:	Susceptible - 1lt (11.2.3.2)
TESTED BY:	JG, CP	COMPACTION SAMPLE:	Separate samples
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	CTS procedure TP41
VARIATIONS:	None	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS:	Overcast	GRADING ZONE:	1
LOCATION AND ORIENTATION:	N/A		

RESULT Test Location: MT Billericay

MAXIMUM DRY DENSITY: 1.23 Mg/m³
OPTIMUM WATER CONTENT: 42 %
AMOUNT (By Dry Mass) RETAINED ON >20mm TEST SIEVE: 0 %
AMOUNT (By Dry Mass) RETAINED ON >37.5mm TEST SIEVE: 0 %
ASSUMED PARTICLE DENSITY USED TO PLOT AIR VOIDS: 2.65 Mg/m³

WATER CONTENT / DRY DENSITY RELATIONSHIP



Remarks:

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For and on behalf of CTS
James Gough - Senior Lab Technician

Approved Signatory
Report date 10-Apr-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333



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Report Format: OMC2.5/TP06/Rep Issue 1 Rev 3 03/24

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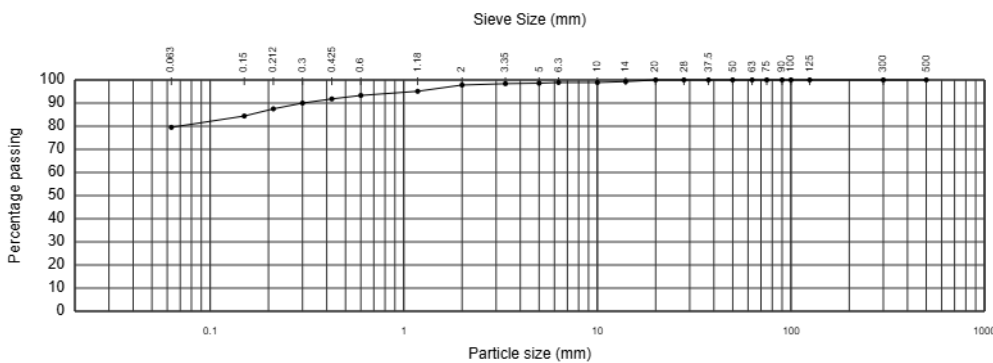
TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS 1377-2: 2022 Clause 10 & BS EN ISO 17892-4: 2016

REPORT NUMBER: C5001518 / 334682.21.1.1
SAMPLE NUMBER: 528333
CLIENT REF: 528333
DATE SAMPLED: 20/02/2025
SAMPLED BY: Aaron Henson
DATE RECEIVED: 21/02/2025
DATE COMPLETED: 07/03/2025
TESTED BY: EB, CP
TYPE OF SAMPLE: Disturbed
VARIATIONS: No variations
METHOD OF SAMPLING: Method 4: Sampling material from heaps / stockpiles
ENVIRONMENTAL CONDITIONS: Overcast

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
SOURCE / SUPPLIER: Aggreg8, Barnston
MATERIAL DESCRIPTION: Brown clay
PROPOSED CLASSIFICATION:
LOCATION: 7J Stockpile - 4th Round
PREPARATION METHOD: BS 1377:Part 1:2016 clause 8.3 & 8.4.5
SAMPLING PLAN: CTS procedure TP41
LOCATION AND ORIENTATION: N/A
WITHIN SAMPLE:

RESULT Test Location: MT Billericay



Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY			SAND			GRAVEL		
						COBBLE		
						BOULDERS		

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 2%
Percentage SAND: 18%
Percentage SILT/CLAY: 80%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	100	
28	100	
20	100	
14	99	
10	99	
6.3	99	
5	99	
3.35	98	
2	98	
1.18	95	
0.6	93	
0.425	92	
0.3	90	
0.212	88	
0.15	84	
0.063	80	

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For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25



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Report Format: PSDsoil/TPTBA/Rep Issue 1 Rev 2 04/24

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LABORATORY REPORT



Contract Number: PSL25/1356

Report Date: 14 March 2025
Client's Reference: 334682
Client Name: CTS Group - Heathrow
Unit 12
Britannia Ind Est
Poyle Rd
Colnbrook
SL3 0BH

For the attention of: Sasha Mahon

Contract Title: Leaside Road, Tottenham

Date Received: 25/2/2025
Date Commenced: 25/2/2025
Date Completed: 14/3/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)


A Fry
(Section Manager)

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Page 1 of

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Client Reference: 528333

Source: Barnston

CTS Reference: 528333

Supplier: Aggreg8

Sample Type: B

Location: 7J Stockpile - 4th Round

Date Sampled: 20/02/25

Description of Specimen
Brown slightly sandy silty CLAY.
Remarks
Remoulded using 2.5kg effort @ NMC

Initial Specimen Conditions		
Height	mm	101.22
Diameter	mm	101.15
Area	mm ²	8035.66
Volume	cm ³	813.37
Mass	g	1325
Dry Mass	g	834
Bulk Density	Mg/m ³	1.63
Dry Density	Mg/m ³	1.03
Water Content	%	58.8
Voids Ratio	-	1.583
Specific Gravity	Mg/m ³	2.65
(assumed/measured)	-	assumed

Final Specimen Conditions		
Water Content	%	50.8
Bulk Density	Mg/m ³	1.55
Dry Density	Mg/m ³	1.03

Test Setup		
Date Started		03/03/2025
Date Finished		07/03/2025
Top Drain Used		Y
Base Drain Used		Y
Method of Saturation		By back pressure
Direction Of Flow		Vertically Downwards
Saturation Time	Days	1
Consolidation Time	Days	2
Permeability Time	Days	1



Leeside Road, Tottenham

Contract No.

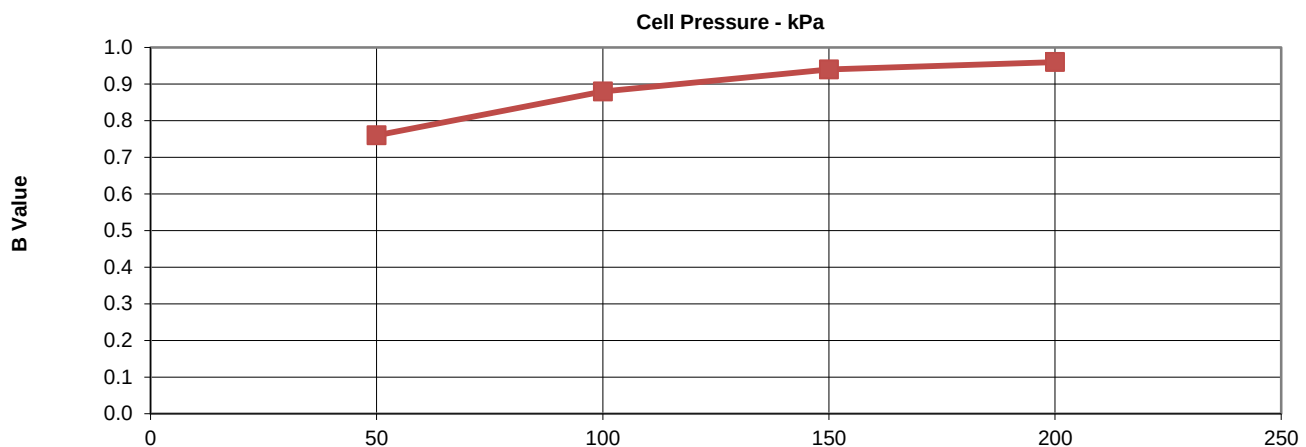
PSL25/1356

Client Ref

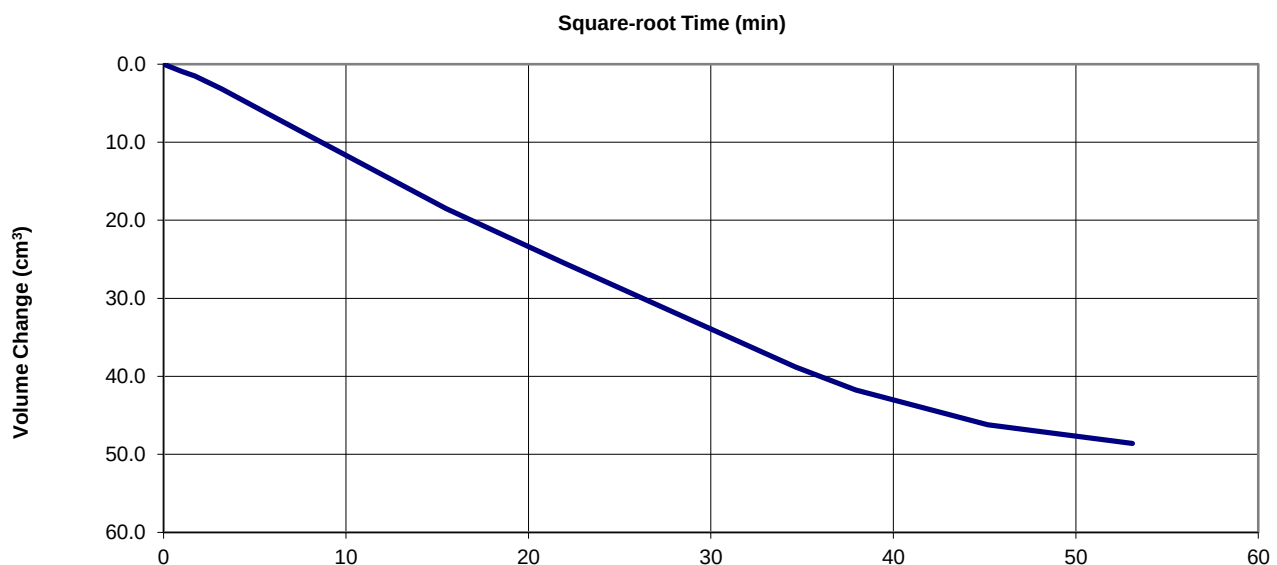
PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		528333
Supplier:	m	Barnston
CTS Reference:		528333
Location:		7J Stockpile - 4th Round
Saturation		
Cell Pressure Incr.	kPa	50
Back Pressure Incr.	kPa	50
Differential Pressure	kPa	10
Final Cell Pressure	kPa	200
Final B Value	-	0.96



Consolidation		
Effective Pressure	kPa	100
Cell Pressure	kPa	400
Back Pressure	kPa	300
Final PWP	kPa	300
PWP dissipation	%	100



Leeside Road, Tottenham

Contract No.

PSL25/1356

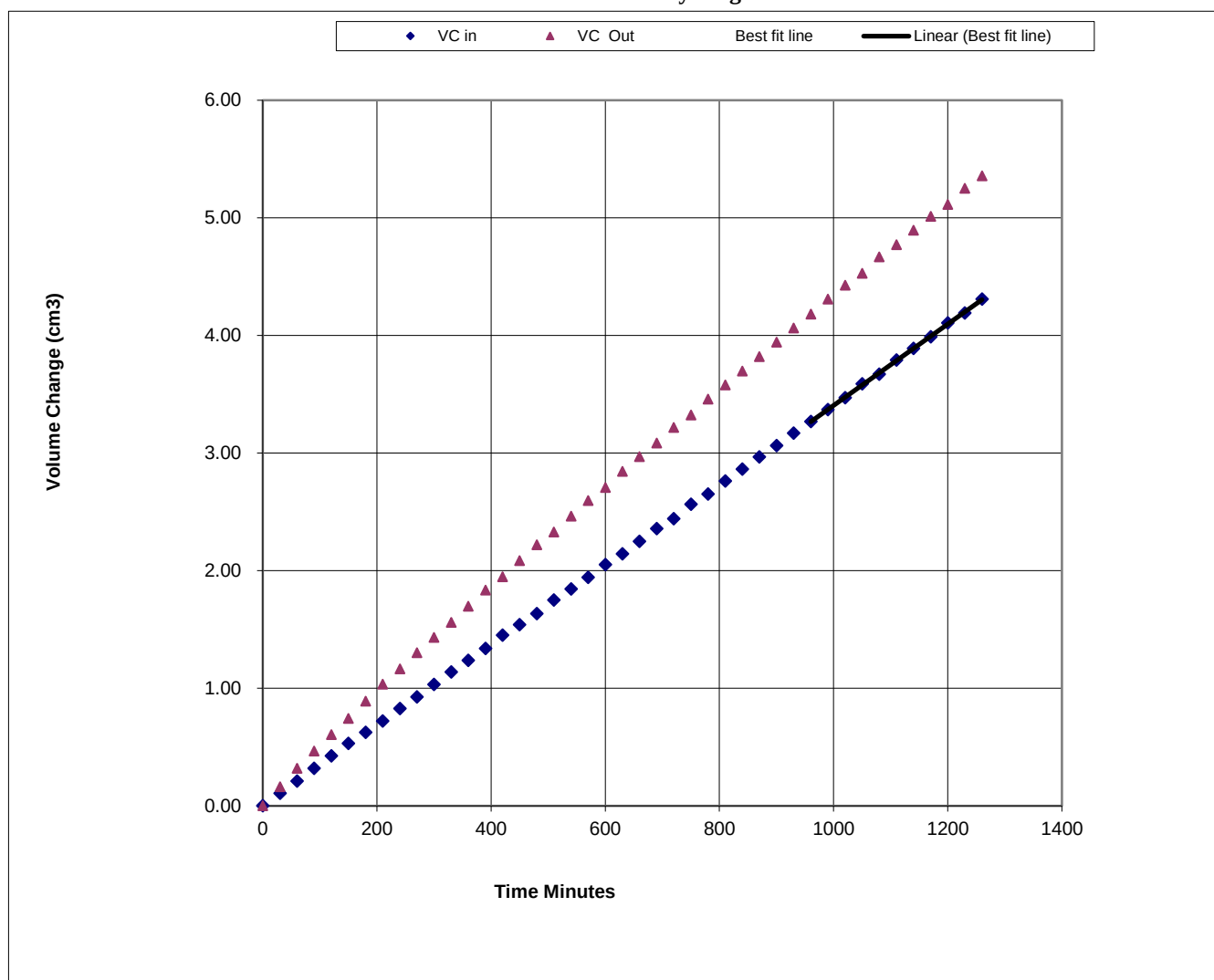
Client Ref

PERMEABILITY IN A TRIAXIAL CELL

BS 1377 - Part 2 : 2022 : Clause 23 in accordance with BS EN ISO 17892 - 11 : 2019

Specimen Details		
Client Reference:		528333
Supplier:	m	Barnston
CTS Reference:		528333
Location:		7J Stockpile - 4th Round

Permeability Stage



Permeability Stage		
Cell Pressure	kPa	400
Mean Effective Stress	kPa	100
Back Pressure Diff.	kPa	20
Mean Rate of Flow	ml/min	0.0022
Average Temperature	'C	20
Vertical Permeability Kv	m/s	2.2E-10



Leeside Road, Tottenham

Contract No.

PSL25/1356

Client Ref

DETERMINATION OF THE PLASTICITY INDEX OF SOIL

BS 1377-2: 2022 Clause 5.3 & 6 & BS EN ISO 17892-12: 2018 + A2: 2022 Fall Cone Method

REPORT NUMBER:	C5001518 / 334682.15.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	528333	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	528333	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SITE ADDRESS:	Leeside Road, Tottenham,
SAMPLED BY:	Aaron Henson	MATERIAL:	Brown clay 7J
DATE RECEIVED:	21/02/2025	SUPPLIER:	Aggreg8, Barnston
DATE COMPLETED:	06/03/2025	SOURCE:	Barnston
TESTED BY:	JG, EB	SAMPLE LOCATION:	7J Stockpile - 4th Round
TYPE OF SAMPLE:	Disturbed sample	SAMPLING PLAN:	CTS procedure TP41
LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A		
VISUAL DESCRIPTION:	Not required	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
		ENVIRONMENTAL CONDITIONS:	Overcast

RESULTS: Test Location: MT Billericay

Type of cone used: 80g/30°

Factor for one point test: 0.949

Penetration A 22.9mm, Water content A: 63.1%

Penetration B 22.8mm, Water content B: 62.9%

TEST DETAILS (One point method)	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE:	60%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE:	28%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	32%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	76%	Taken from PSD	
Initial water content determined :	N/A		
Sample History:	The material was tested after washing through a 425µm test sieve		

Liquid limit correction value will be taken from BS 1377-2 : 2022, unless otherwise requested.

Remarks:

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END OF REPORT

For and on behalf of CTS
Sasha Mahon - Laboratory Manager



Approved Signatory
Report date 12-Mar-25

Construction Testing Solutions Ltd.
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DETERMINATION OF THE MOISTURE CONTENT OF SOILS

BS 1377:Part 2:1990 clause 3.2 - oven drying method

REPORT NUMBER:	C5001518 / 334682.20.1.1	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NUMBER:	See Below	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	See Below	SITE:	Leeside Road, Tottenham
DATE SAMPLED:	20/02/2025	SUPPLIER:	Aggreg8
SAMPLED BY:	Aaron Henson	SOURCE:	Barnston
DATE RECEIVED:	21/02/2025	MATERIAL:	See Below
DATE COMPLETED:	04/03/2025	LOCATION:	See Below
TESTED BY:	EB, CP	PREPARATION METHOD:	BS 1377-1: 2016 clause 8
TYPE OF SAMPLE:	Disturbed sample	METHOD OF SAMPLING:	Method 4: Sampling material from heaps / stockpiles
SAMPLING PLAN:	CTS procedure TP41	LOCATION AND ORIENTATION WITHIN SAMPLE:	N/A
ENVIRONMENTAL CONDITIONS:	Overcast		

TEST RESULT: Test Location: MT Billericay

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
528333	528333	Sampling on surface	Brown clay	47	NA	NA

Remarks:

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END OF REPORT

For and on behalf of CTS
James Gough - Senior Lab Technician



Approved Signatory
Report date 04-Mar-25

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4161

In-Situ Dry Density, Relative Compaction And Air Voids
BS 1377-9: 1990 Nuclear Density Method D (Direct transmission)

REPORT NUMBER:	C5001518 / 332894.2.1.1	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	10/02/2025	SITE:	Leeside Road, Tottenham Leeside Road, Tottenham,
TESTED BY:	Earl Pioche	SUPPLIER / SOURCE:	Site Site won in-situ
GUAGE MODEL No:	3440	MATERIAL:	Light Brown cohesive loom
GUAGE SERIAL No:	21345	ENVIRONMENTAL CONDITIONS:	Overcast
CORRECTION FACTORS:	Bulk $\gamma=1.009$ Moisture $b=1.009$	OMC REFERENCED:	NA
MAX DRY DENSITY:	1.56 Mg/m ³	PARTICLE DENSITY:	2.65 Mg/m ³
DEPTH OF LAYER:	300	DEPTH OF TEST	250
SAMPLING PLAN:	CTS procedure		

TEST RESULTS Activity Location: On-Site

AREA OF TEST: CLAY TEST PAD(WAKKER), NDM 01

Test No.	Gauge Bulk Density (Mg/m ³)	Gauge Moisture Density (Mg/m ³)	Corrected Bulk Density (Mg/m ³)	Corrected Moisture Content (%)	Mean Moisture Content (%)	Mean Dry Density (Mg/m ³)	Mean Air Voids (%)	Mean Relative Compaction (%)
WAKKER pad CH1	1.530	0.368	1.54	32	31	1.17	18.9	75
	1.524	0.362	1.54	31				
CLAY TEST PAD(WAKKER), NDM 01 CH2	1.500	0.335	1.51	29	29	1.17	21.8	75
	1.498	0.338	1.51	29				
CLAY TEST PAD(ROLLER), NDM 02 CH3	1.509	0.368	1.52	32	32	1.15	19.4	74
	1.507	0.370	1.52	33				
CLAY TEST PAD(ROLLER), NDM 02 CH4	1.539	0.359	1.55	30	30	1.19	18.9	76
	1.537	0.358	1.55	30				

Remarks:
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Report Format: NDM042Bulk/TP13/Rep Issue 1 Rev0 10/23

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END OF REPORT

For and on behalf of CTS
Tim Gray - Operations Supervisor



Approved Signatory
Report date 24-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF IN-SITU DENSITY

Tested in accordance with BS 1377:Part 9:1990 clause 2.2 Large Cylinder Sand Replacement

REPORT NUMBER:	C5001518 / 332894.3.1.2	CLIENT:	ERITH CONTRACTORS LTD
SAMPLE NO:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
CLIENT REF:	5001518	SITE:	Leeside Road, Tottenham
DATE TESTED:	10/02/2025	MATERIAL:	Clay
TESTED BY:	Earl Pioche	SOURCE:	In-situ site won
SUPPLIER:	Site	DEVIATIONS:	None
ENVIRONMENTAL CONDITIONS:	Overcast	SAMPLING METHOD:	Method 4: Sampling material from heaps / stockpiles
SAMPLING PLAN:	CTS procedure TP41	TEST LEVEL:	250mm
GROUNDWATER LEVEL:	Not known		

RESULTS

LOCATION DETAILS

Laboratory Ref:	525775	525799
Client Ref:	5001518	5001518
Test location:	CLAY PLATFORM(WAKKER), SRD 01	CLAY TEST PAD(ROLLER), SRD 02

Weather Conditions:	Overcast	Overcast
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TEST DETAILS

Bulk Density: (Mg/m ³)	1.52	1.59
Moisture Content: (%)	31	28
Dry Density: (Mg/m ³)	1.16	1.24
Maximum Dry Density: (Mg/m ³)	1.94	1.94
Percentage Compaction: (%)	59.7	64.0
Particle Density (Mg/m ³)	2.64	2.64
Volume of Air Voids (%)	20.4	17.8

Remarks:

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For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 28-Feb-25

Construction Testing Solutions Ltd.
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Report version 1



4161

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.1
CLIENT REF: 5001518
DATE COMPLETED: 10/02/2025
TESTED BY: Earl Pioche
LOCATION: CLAY TEST PAD(WAKKER), CBR 01
GROUND CONDITIONS: Wet
DISTANCE FROM EDGE OF PLATE TO WALL: 0 mm
TEST DEPTH: 0mm
AIR TEMPERATURE: 4°C
SAMPLING PLAN: CTS procedure

CLIENT: ERITH CONTRACTORS LTD
ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
SITE: Leaside Road, Tottenham
LAT / LNG: 51.6049347, -0.0470949
MATERIAL: Clay
ENVIRONMENTAL CONDITIONS: Overcast
SUPPLIER: Site
SOURCE: Site won-insitu
TEST METHOD: Incremental Plate Loading
SAMPLE TAKEN: No

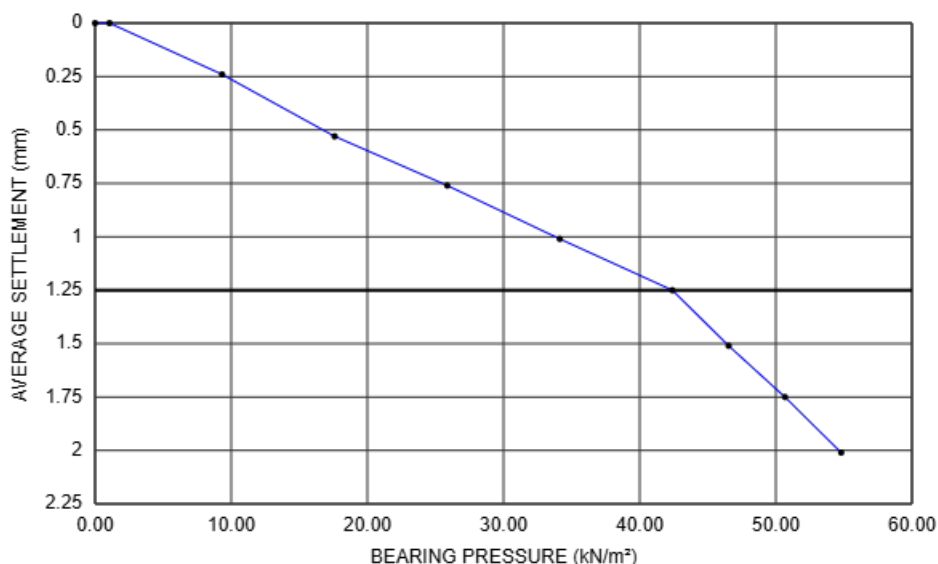
Equipment Details

Type of Kentledge: 27 Ton Excavator
Plate Diameter: 450 mm
Plate Area: 0.159043 m²
Plate Correction: 0.62

Results

Max applied pressure: 55 kN/m²
Max settlement: 2.01 mm
Avg Bearing Pressure (P) at 1.25mm penetration: 42 kN/m²
Modulus of subgrade K762: 21 kN/m²/mm
Equivalent C.B.R Value at 1.25mm penetration: 1.9%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 1.9 %

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Report Format: STP S8 rev.1

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Report version 1

Page 1 of 2

Determination of Equivalent CBR Value

Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1

REPORT NUMBER: C5001518 / 332894.4.1.1

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.2	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	9.3	-0.21	-0.25	-0.27	0.21	0.25	0.27	0.24
2.8	17.6	-0.52	-0.53	-0.53	0.52	0.53	0.53	0.53
4.1	25.9	-0.75	-0.76	-0.77	0.75	0.76	0.77	0.76
5.4	34.1	-1.01	-1.01	-1.02	1.01	1.01	1.02	1.01
6.7	42.4	-1.23	-1.26	-1.27	1.23	1.26	1.27	1.25
7.4	46.5	-1.51	-1.50	-1.52	1.51	1.50	1.52	1.51
8.1	50.7	-1.74	-1.76	-1.76	1.74	1.76	1.76	1.75
8.7	54.8	-1.99	-2.03	-2.01	1.99	2.03	2.01	2.01

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 10-Feb-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

In-Situ Dry Density, Relative Compaction And Air Voids
BS 1377-9: 1990 Nuclear Density Method D (Direct transmission)

REPORT NUMBER: C5001518 / 353251.1.1.1
CLIENT REF: 5001518 CLIENT: ERITH CONTRACTORS LTD
DATE TESTED: 16/06/2025 ADDRESS: Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
TESTED BY: Toby Crouch SITE: Leaside Road, Tottenham
Leaside Road, Tottenham,
GAUGE MODEL No: 3440 SUPPLIER / SOURCE: RMS, Silvertown
GAUGE SERIAL No: 15409 MATERIAL: 1A Recycled Aggregate
CORRECTION FACTORS: Bulk $\gamma=1$ ENVIRONMENTAL CONDITIONS: Sunny
Moisture $b=1$ OMC REFERENCED: NA
MAX DRY DENSITY: 2 Mg/m³ PARTICLE DENSITY: 2.64 Mg/m³
DEPTH OF LAYER: 300 DEPTH OF TEST: 200
SAMPLING PLAN: CTS procedure

TEST RESULTS Activity Location: On-Site

AREA OF TEST: NDM Testing 16/6/25

Test No.	Gauge Bulk Density (Mg/m ³)	Gauge Moisture Density (Mg/m ³)	Corrected Bulk Density (Mg/m ³)	Corrected Moisture Content (%)	Mean Moisture Content (%)	Mean Dry Density (Mg/m ³)	Mean Air Voids (%)	Mean Relative Compaction (%)
Test 1	2.197	0.208	2.20	10	11	1.94	5.1	97
	2.115	0.216	2.12	11				
Test 2	2.198	0.208	2.20	10	10	1.99	4.0	100
	2.196	0.202	2.20	10				
Test 3	2.192	0.202	2.19	10	10	1.95	6.2	97
	2.103	0.200	2.10	11				

Remarks:

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Report Format: NDM042Bulk/TP13/Rep Issue 1 Rev0 10/23

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 20-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF IN-SITU DENSITY

Tested in accordance with BS 1377:Part 9:1990 clause 2.2 Large Cylinder Sand Replacement

REPORT NUMBER:	C5001518 / 353251.3.1.1		
SAMPLE NO:	5001518	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	16/06/2025	SITE:	Leeside Road, Tottenham
TESTED BY:	Toby Crouch	MATERIAL:	1A Recycled Aggregate
SUPPLIER:	RMS	SOURCE:	RMS, Silvertown
ENVIRONMENTAL CONDITIONS:	Sunny	DEVIATIONS:	None
SAMPLING PLAN:	CTS procedure TP41	SAMPLING METHOD:	Method 5: Sampling of imported granular material from spread or laid material.
GROUNDWATER LEVEL:	1.7m bgl	TEST LEVEL:	Not known

RESULTS

LOCATION DETAILS

Laboratory Ref:	556932	556939	556943
Client Ref:	5001518	5001518	5001518
Test location:	Test 1	Srd test 2	Srd test 3

Weather Conditions:	Sunny	Sunny	Sunny
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TEST DETAILS

Bulk Density: (Mg/m ³)	2.22	2.29	2.28
Moisture Content: (%)	5.6	5.9	5.7
Dry Density: (Mg/m ³)	2.10	2.17	2.16
Maximum Dry Density: (Mg/m ³)	2.00	2.00	2.00
Percentage Compaction: (%)	105.2	108.3	108.0
Particle Density (Mg/m³)	2.64	2.64	2.64
Volume of Air Voids (%)	8.6	5.2	5.8

Remarks:

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 19-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF IN-SITU DENSITY

Tested in accordance with BS 1377:Part 9:1990 clause 2.2 Large Cylinder Sand Replacement

REPORT NUMBER:	C5001518 / 353251.3.1.2		
SAMPLE NO:	5001518	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	16/06/2025	SITE:	Leeside Road, Tottenham
TESTED BY:	Toby Crouch	MATERIAL:	1A Recycled Aggregate
SUPPLIER:	RMS	SOURCE:	RMS, Silvertown
ENVIRONMENTAL CONDITIONS:	Sunny	DEVIATIONS:	None
SAMPLING PLAN:	CTS procedure TP41	SAMPLING METHOD:	Method 5: Sampling of imported granular material from spread or laid material.
GROUNDWATER LEVEL:	1.7m bgl	TEST LEVEL:	Not known

RESULTS

LOCATION DETAILS

Laboratory Ref:	556932	556939	556943
Client Ref:	5001518	5001518	5001518
Test location:	Test 1	Srd test 2	Srd test 3

Weather Conditions:	Sunny	Sunny	Sunny
---------------------	-------	-------	-------

TEST DETAILS

Bulk Density: (Mg/m ³)	2.22	2.29	2.28
Moisture Content: (%)	5.6	5.9	5.7
Dry Density: (Mg/m ³)	2.10	2.17	2.16
Maximum Dry Density: (Mg/m ³)	2.00	2.00	2.00
Percentage Compaction: (%)	105.2	108.3	108.0
Particle Density (Mg/m ³)	2.64	2.64	2.64
Volume of Air Voids (%)	8.6	5.2	5.8

Remarks:

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 19-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

DETERMINATION OF IN-SITU DENSITY

Tested in accordance with BS 1377:Part 9:1990 clause 2.2 Large Cylinder Sand Replacement

REPORT NUMBER:	C5001518 / 353251.3.1.3		
SAMPLE NO:	5001518	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	16/06/2025	SITE:	Leeside Road, Tottenham
TESTED BY:	Toby Crouch	MATERIAL:	1A Recycled Aggregate
SUPPLIER:	RMS	SOURCE:	RMS, Silvertown
ENVIRONMENTAL CONDITIONS:	Sunny	DEVIATIONS:	None
SAMPLING PLAN:	CTS procedure TP41	SAMPLING METHOD:	Method 5: Sampling of imported granular material from spread or laid material.
GROUNDWATER LEVEL:	1.7m bgl	TEST LEVEL:	Not known

RESULTS

LOCATION DETAILS

Laboratory Ref:	556932	556939	556943
Client Ref:	5001518	5001518	5001518
Test location:	Test 1	Srd test 2	Srd test 3

Weather Conditions:	Sunny	Sunny	Sunny
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TEST DETAILS

Bulk Density: (Mg/m ³)	2.22	2.29	2.28
Moisture Content: (%)	5.6	5.9	5.7
Dry Density: (Mg/m ³)	2.10	2.17	2.16
Maximum Dry Density: (Mg/m ³)	2.00	2.00	2.00
Percentage Compaction: (%)	105.2	108.3	108.0
Particle Density (Mg/m³)	2.64	2.64	2.64
Volume of Air Voids (%)	8.6	5.2	5.8

Remarks:

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END OF REPORT

For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 19-Jun-25

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

In-Situ Dry Density, Relative Compaction And Air Voids
BS 1377-9: 1990 Nuclear Density Method D (Direct transmission)

REPORT NUMBER:	C5001518 / 355950.3.1.1	CLIENT:	ERITH CONTRACTORS LTD
CLIENT REF:	5001518	ADDRESS:	Erith House, 7 Queen Street, Erith, Kent, DA8 1RP
DATE TESTED:	01/07/2025	SITE:	Leeside Road, Tottenham Leeside Road, Tottenham,
TESTED BY:	Kyle Ager	SUPPLIER / SOURCE:	RMS, Silvertown
GAUGE MODEL No:	TROXLER 3440	MATERIAL:	1A
GAUGE SERIAL No:	15414	ENVIRONMENTAL CONDITIONS:	Sunny
CORRECTION FACTORS:	Bulk $\gamma=1.009$ Moisture $b=1.009$	OMC REFERENCED:	337922.21.1.1
MAX DRY DENSITY:	2.02 Mg/m ³	PARTICLE DENSITY:	2.65 Mg/m ³
DEPTH OF LAYER:	300	DEPTH OF TEST	200
SAMPLING PLAN:	CTS procedure		

TEST RESULTS Activity Location: On-Site

AREA OF TEST: Pylon Base, Layer 8

Test No.	Gauge Bulk Density (Mg/m ³)	Gauge Moisture Density (Mg/m ³)	Corrected Bulk Density (Mg/m ³)	Corrected Moisture Content (%)	Mean Moisture Content (%)	Mean Dry Density (Mg/m ³)	Mean Air Voids (%)	Mean Relative Compaction (%)
TEST 1	2.134	0.156	2.15	7.9	7.9	2.00	8.7	99
	2.143	0.158	2.16	8.0				
TEST 2	2.106	0.170	2.13	8.8	8.9	1.95	9.0	97
	2.108	0.173	2.13	8.9				
TEST 3	2.107	0.193	2.13	10	10	1.93	7.7	95
	2.103	0.195	2.12	10				

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For and on behalf of CTS
Lee Rossiter - Operations supervisor



Approved Signatory
Report date 01-Jul-25

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