

Trentside Geotechnical Testing

Highlands Farm, Southend Road

Rettendon, Essex, CM3 8EB

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Geotechnical Testing

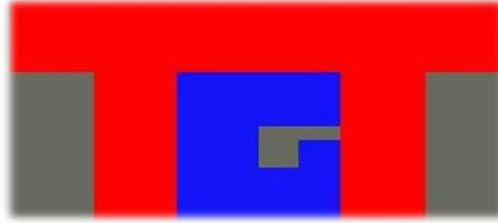
Client : RIO (Recycled in Orsett)

Site Name : Dansand Quarry

Client Reference : Screened Sub Soil

Laboratory Reference : TGT1582c

Date of Completion : 28-Mar



Content Summary

Lab Reference : TGT1582c

Client Reference : Rio Premium Soil

For the attention of : Keiron Trebilcoe

This report comprises of the following : 1 Summary Page

1 PSD

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by Customer

All tests performed in-house unless otherwise stated

Deviant Samples

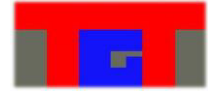
Samples were received in suitable containers Yes

A date and time of sampling was provided Yes

Arrived damage/denaturing free Yes

Laboratory Test Certificate

BS8601:2013



Trentside Geotechnical
Highlands Farm, Rettendon
Essex
CM3 8EB
020 3488 0311

Project : Routine Testing

Job Number : TGT1582c

Client : Recycled in Orsett (RIO Soils)

Lab Reference No. : 25-0181

Dansand Quarry
Stanford Road, Orsett
Essex, RM16 3BB

Date Received : 19-Mar
Date Tested : 21-Mar
Date Reported : 28-Mar

Ordered By : Kieron Treblico

Material Name : Screened Sub Soil

Parameter	Units	BS 8601 : 2013 Multipurpose Range	Result	Compliance
Clay Content	%	10 - 35%	16.5	Yes
Silt Content	%	0 - 65%	33.2	Yes
Sand Content	%	30 - 85%	50.3	Yes
Organic Matter	%	3 - 20%	5.7	Yes
Retained on 2mm sieve	%	0 - 30%	20.8	Yes
Retained on 20mm sieve	%	0 - 10%	0	Yes
Retained on 50mm sieve	%	0%	0	Yes
pH	Unit	5.5 - 8.5	7.0	Yes
Neutralising Value (CaCO ₃)	%	-	3.4	n/a
Nitrogen (Kjeldahl)	mg/kg	≥ _{0.15}	110	Yes
Phosphorous (Extractable BS 3882)	mg/l	16 - 140	20	Yes
Potassium (Extractable BS 3882)	mg/l	121 - 1500	134	Yes
Magnesium (Extractable BS 3882)	mg/l	51 - 600	98	Yes
Carbon / Nitrogen Ratio	Unit	< 20:1	0.9	Yes
Electrical Conductivity	µS/cm	< 3300	2100	Yes
Zinc	mg/kg	< 300	56	Yes
Copper	mg/kg	< 200	55	Yes
Nickel	mg/kg	< 110	39	Yes

Comments :-

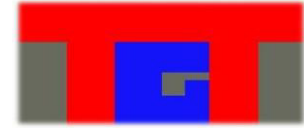
Technician :- PCL

Approved : ABD

Date Checked : 28/03/2025

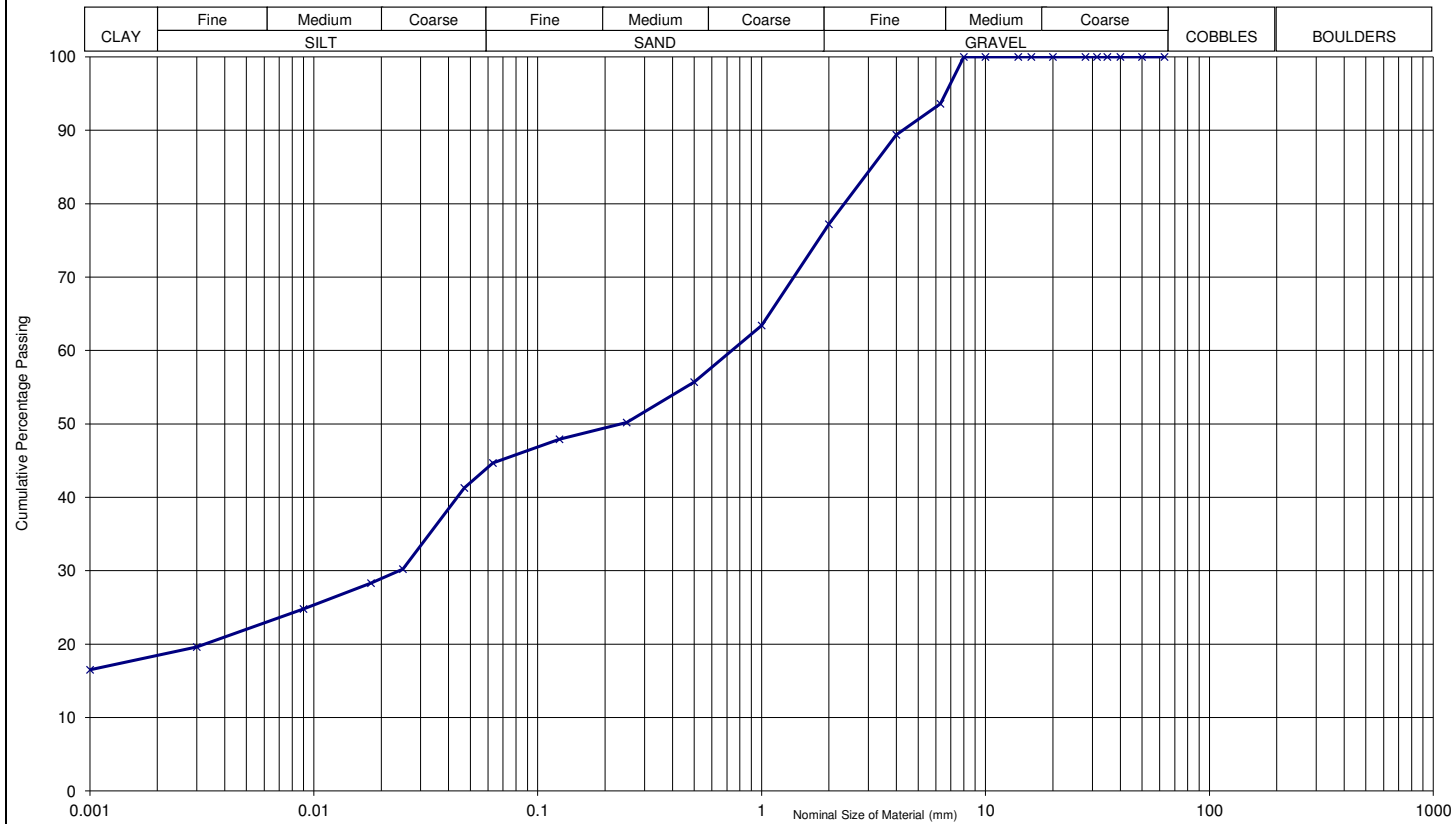
PARTICLE SIZE DISTRIBUTION - Multipurpose

BS 3882 : 2015



Job Number : TGT1582c Site Name : Dansand Quarry
 Sample Number : 16-0181
 Depth : n/a
 Client Ref : Rio Premium Soil

Type of Sieving : Hydrometer
 Date : 18-Jan-16
 Tested By : CW
 Laboratory : Trentside Geotechnical, CM3 8EB



Sieve Size (mm)	Specification Limits	% Passing
63		100
50		100
40		100
35.0		100.0
31.5		100.0
28.0		100
20		100.0
16		100.0
14.0		100.0
10.0		100.0
8.0		100.0
6.3		93.6
4.0		89.4
2.0		79.2
1.0	35 - 85	63.4
0.5		55.7
0.250		50.2
0.125		47.9
0.063	0 - 65	44.7
0.047	10 - 35	41.3
0.025		30.2
0.018		28.3
0.009		24.8
0.003		19.6
0.001		16.5

Graph is for illustration, for exact values please see table :

Calculations :-
$$f = \frac{(M_1 - M_2) + P}{M_1} \times 100$$

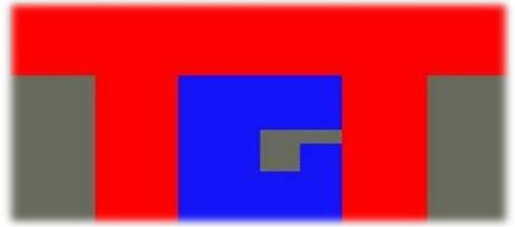
$$f = 100P/M_1 \text{ (dry sieving)}$$

f = Percentage of fines passing 0.063mm
 M₁ = Mass of dried test sample before washing (kg)
 M₂ = Mass of dried residue retained on the 0.063m (kg)
 P = Mass of screened material remaining in the pan (kg)

Comments :-
 The opinions and interpretations indicated are outside the scope of Accreditation

Checked By :- GW

Date Checked :- 28-Mar-2025



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This report shall not be reproduced, except in full, without the written approval of the testing laboratory.

Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.