

Environmental
Geotechnical
Specialists



LABORATORY REPORT

< ENVIRONMENTAL > < GEOTECHNICAL >

job number	date
site address	
date scheduled	date issued
issued by	

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Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



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Schedule of UKAS Accredited Laboratory Tests



1. CLASSIFICATION OF SOIL	BS 1377-2:1990	BS EN ISO 17892	Accredited (A)	Unaccredited (U)
1.1 Moisture / Water content determination				
i. Oven drying	Pt 2 : 3.2	Pt 1 : 2014 Pt 12 : 2018 : 5.3 / 5.5	A	
ii. Saturation m/c of chalk	Pt 2 : 3.3			U
1.2 Index Properties				
i. Liquid limit – cone penetrometer	Pt 2 : 4.3		A	
ii. Plastic limit	Pt 2 : 5.3		A	
iii. Shrinkage limit	Pt 2 : 6.3			U
iv. Linear shrinkage	Pt 2 : 6.5		A	
1.3 Particle Density				
i. Gas jar	Pt 2 : 8.2		A	
ii. Large pycnometer	Pt 2 : 8.3			U
iii. Small pycnometer	Pt 2 : 8.4	Pt 3 : 2015 : 5.1		U
1.4 Density Tests				
i. Linear measurement	Pt 2 : 7.2	Pt 2 : 2014 : 5.1	A	
ii. Immersion in water	Pt 2 : 7.3	Pt 2 : 2014 : 5.2		U
iii. Fluid / Water displacement	Pt 2 : 7.4	Pt 2 : 2014 : 5.3		U
iv. Sand replacement	Pt 9 : 2.1, 2.2			U
v. Core cutter	Pt 9 : 2.4			U
1.5 Particle Size Distribution				
i. Dry Sieve	Pt 2 : 9.2	Pt 4 : 2016 : 5.2	A	
ii. Wet Sieve	Pt 2 : 9.3	Pt 4 : 2016 : 5.2	A	
iii. Sedimentation by pipette	Pt 2 : 9.4	Pt 4 : 2016 : 5.3 / 5.4	A	
iv. Sedimentation by hydrometer	Pt 2 : 9.5			U
2. CHEMICAL TESTS				
ii. Mass loss on ignition	Pt 3 : 4			U
3. COMPACTION RELATED TESTS				
3.1 Dry density/moisture relationship				
i. 2.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
ii. 4.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
3.2 Moisture Condition Value				
i. Single point test	Pt 4 : 5.4			U
ii. MCV/moisture content relationship	Pt 4 : 5.5			U
3.3 California Bearing Ratio				
i. Undisturbed sample	Pt 5 : 7		A	
ii. Recompacted sample	Pt 5 : 7		A	
iii. Soaked, inc measurement of swell	Pt 5 : 7		A	
4. COMPRESSIBILITY OF SOIL				
ii. Swelling pressure test	Pt 5 : 3		A	
	Pt 5 : 3			U
5. SHEAR STRENGTH OF SOIL				
i. Hand shear vane	Makers instructions			U
ii. Shear box (100mm square sample)	BS 1377 : Pt 7 : 4			U
iii. Triaxial – quick undrained	BS 1377 : Pt 7 : 8, 9		A	
6. PERMEABILITY				
i. Falling head	K. H. Head Vol 2			U
ii. Constant head	BS 1377 : Pt 6 : 6			U
iii Triaxial cell	BS 1377 : Pt 6 : 6			U
7. ROCK TESTS				
7.1 Classification Tests				
i. Natural moisture content	-			U
ii. Saturated moisture content	-			U
iii. Natural density	-			U
iv. Porosity	-			U
7.2 Strength Tests				
i. Point load index	ISRM '85			U
ii. Uniaxial compression test	ISRM '81			U

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Disclaimer

The results reported herein relate only to the material supplied to the laboratory.



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GEOTECHNICAL TESTING RESULTS



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Test Report:	Determination of Particle Size Distribution BS EN 933: Part 1: 2012	Report Date:	31/1/24
Client:	Rogers Geotechnical Services	Lab ref:	MT1075 24-0378
Site:	Car Hill	Client ref:	-
Sample location:	Stockpile	Date sampled:	17/1/24
Material:	6F5 Capping	Sampled by:	Client
Specification:	SHW Series 600 Tbl 6/5	Date received:	17/1/24
Test Method:	Washing & Sieving Method	Source of Material:	Site arisings
		Date test completed:	31/1/24
		Test conducted by:	HA

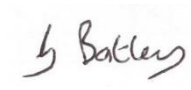
Test Results

Particle Size Distribution					
Sieve (mm)	% Passing	Specification	Sieve (mm)	% Passing	Specification
			8	32	
125	100	100	6.3	29	
80	85	75-99	4	23	
63	72		2.8	20	
40	59	50-90	2	18	0-35
31.5	53		1	15	
20	47	30-75	0.500	12	
16	44		0.250	9	
14	42		0.125	7	
10	36	15-60	0.063	5	0-12

	Result	Specification
Moisture Content %:	8.0%	-
Uniformity Coefficient:		-

Comments: In grading spec

Signed:



For & on behalf of
G2M Testing Ltd

Authorised Signatories:

- M. Aiston (Director)
- D. Anderson (Director)
- G. Batley (Lab Supervisor)

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Test Report:	Classification Test for the Constituents of Coarse Recycled Aggregate	Report Date:	31/1/24
	BS EN 933: Part 11: 2009		
Client:	Rogers Geotechnical Services	Lab ref:	MT1075 24-0378
		Client ref:	-
		Date sampled:	17/1/24
Site:	Car Hill	Sampled by:	Client
Sample Location:	Stockpile	Date received:	17/1/24
Material Type:	6f5	Date test completed:	31/1/24
Visual Description:	Recycled brick and concrete	Test conducted by:	DAB / NE
Specification:	SHW Series 800	Drying Temperature:	40C

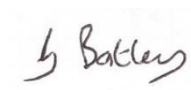
Test Results

Material Description		Proportion Found	Specification %
Floating constituent (cm ³ /kg)	FL	0	
Concrete & concrete products (%)	Rc	70.8	
Unbound aggregates, natural stone (%)	Ru	4.3	
Clay masonry (%)	Rb	9.4	
Bituminous material (%)	Ra	15.3	<50
Glass (%)	Rg	0	<25
Other materials (%)	X	0.2	<1

Comments:

In specification.

Signed:



For & on behalf of
G2M Testing Ltd

Authorised Signatories:

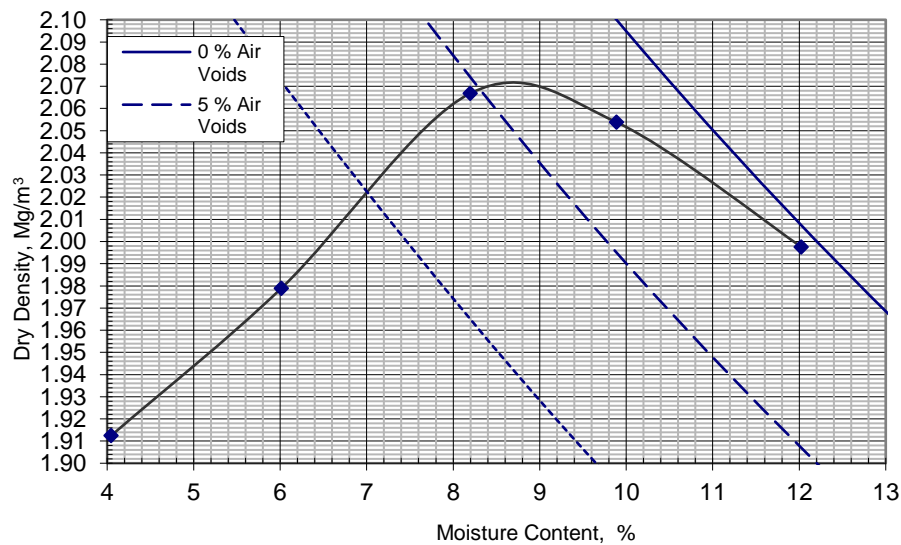
- M. Aiston (Director)
- D. Anderson (Director)
- G. Batley (Laboratory Supervisor)

Test Report:	Determination of Dry Density/Moisture Content Relationship BS EN 13286-4 2003	Report Date:	31/1/24
Client:	Rogers Geotechnical	Lab ref:	MT1075 24-0378
		Client ref:	-
		Date sampled:	17/1/24
Site:	Car Hill	Sampled by:	client
Source:	Site	Date received:	17/1/24
Sample location:	Stockpile		
Material:	6f5	Date test completed:	31/1/24
Test Method:	3.7.5.1/3.7.5.2	Test conducted by:	NE
Sample Preparation:	Clause 3.2.4.2	Max. size of cohesive pieces:	20mm

Test Results

Mould Type:	CBR	% Retained on 40mm Sieve:	41
Grading Zone:	X	% Retained on 20mm Sieve:	54
Single/Multiple samples:	Multiple	Particle Density (Mg/m ³) (assumed):	2.65

Maximum Dry Density (Mg/m³):	2.07	Optimum Moisture Content (%):	8.6
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Comments : Tested as a deviation from the standard

Signed:

 For & on behalf of
G2M Testing Ltd

 Authorised Signatories:
 M. Aiston (Director)
 D. Anderson (Director)
 G. Batley (Laboratory Supervisor)



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Certificate of Analysis

Certificate Number 24-01079

Issued: 22-Jan-24

Client G2M Testing Ltd
Unit 5e
Edwardson Road
Meadowfield
Durham
DH7 8RL

Our Reference 24-01079

Client Reference MT1075

Order No DT2046

Contract Title Car Hill Quarry

Description One Soil sample.

Date Received 19-Jan-24

Date Started 19-Jan-24

Date Completed 22-Jan-24

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. 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 except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read 'Kirk Bridgewood'.

Kirk Bridgewood
General Manager



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Summary of Asbestos Analysis Soil Samples

Our Ref 24-01079

Client Ref MT1075

Contract Title Car Hill Quarry

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2288225	STOCKPILE 24-0378	SOIL	NAD	none	Robertas Ciparis

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * - not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 24-01079
 Client Ref MT1075
 Contract Car Hill Quarry

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Hold time exceeded for tests	Inappropriate container for tests
2288225	STOCKPILE SOIL	18/01/24	PT 1L		

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report



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End of Report



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