

APPENDIX J

LABORATORY GEOTECHNICAL TEST RESULTS

TEST REPORT
LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX
BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

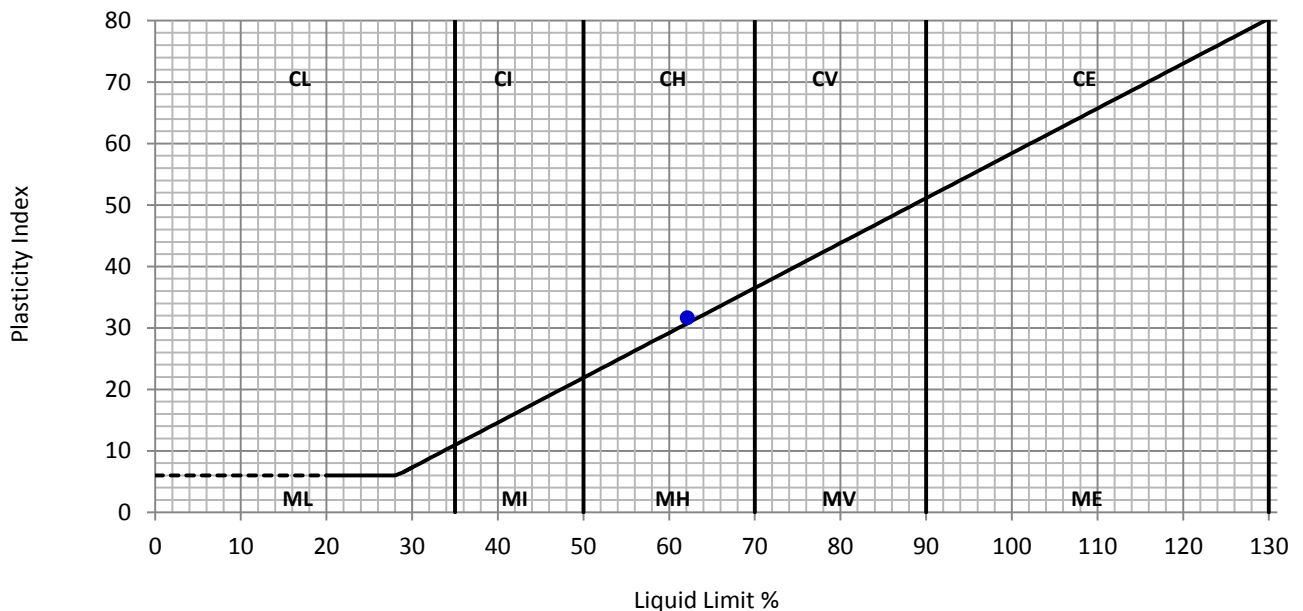
Project No:	D21558	Client:	Integral Geotechnique
Project Name:	12923 - Usk Way	Address:	Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 8PH
ATS Sample No:	26047		

Site Ref / Hole ID:	TP4	Depth (m):	2.00
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Black slightly gravelly CLAY
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:		Material Supplier:	Site Generated
Sampled By:	Client	Specification:	BS1377
Date Received:	14 October 2021	Date Tested:	26 October 2021

Test Results

Liquid Limit	62	%
Plastic Limit	30	%
Plasticity Index	32	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	14 %



Remarks:

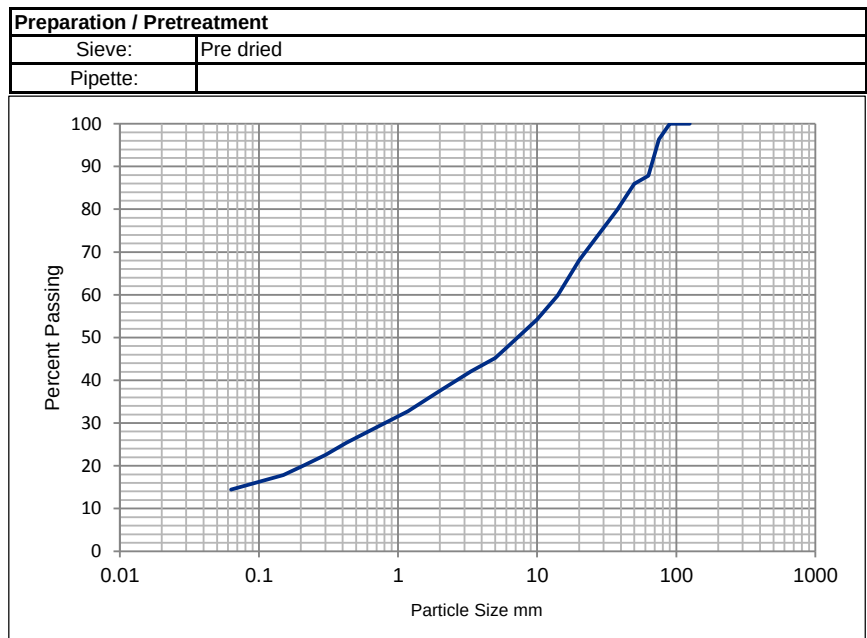
TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

Project No:	D21558	Client:	Integral Geotechnique
Project Name:	12923 - Usk Way	Address	Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 8PH
ATS Sample No:	26050		

Site Ref / Hole ID:	TP5	Depth (m):	0.50
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown silty sandy GRAVEL with medium cobble content
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:		Material Supplier:	Site Generated
Sampled By:	Client	Specification:	BS1377
Date Received:	14 October 2021	Date Tested:	26 October 2021

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	96
63	88
50	86
37.5	80
28	74
20	68
14	60
10	54
6.3	48
5.0	45
3.35	42
2.00	38
1.18	33
0.600	28
0.425	25
0.300	23
0.212	20
0.150	18
0.063	14



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D ₆₀ / D ₁₀
Cobbles / Boulders	12	N/A	
Gravel	50		
Sand	23	Dry mass of sample, kg	
Silt / Clay	14	17.9	N/A

Remarks:

QA Ref.

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Rev. 2.0



Apex Testing Solutions

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Approver

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A Grogan, Laboratory Manager

Date

26/10/2021

Fig

PSD

TEST REPORT
LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX
BS 1377:Part 2:1990. Clause 4.3/5.3/5.4

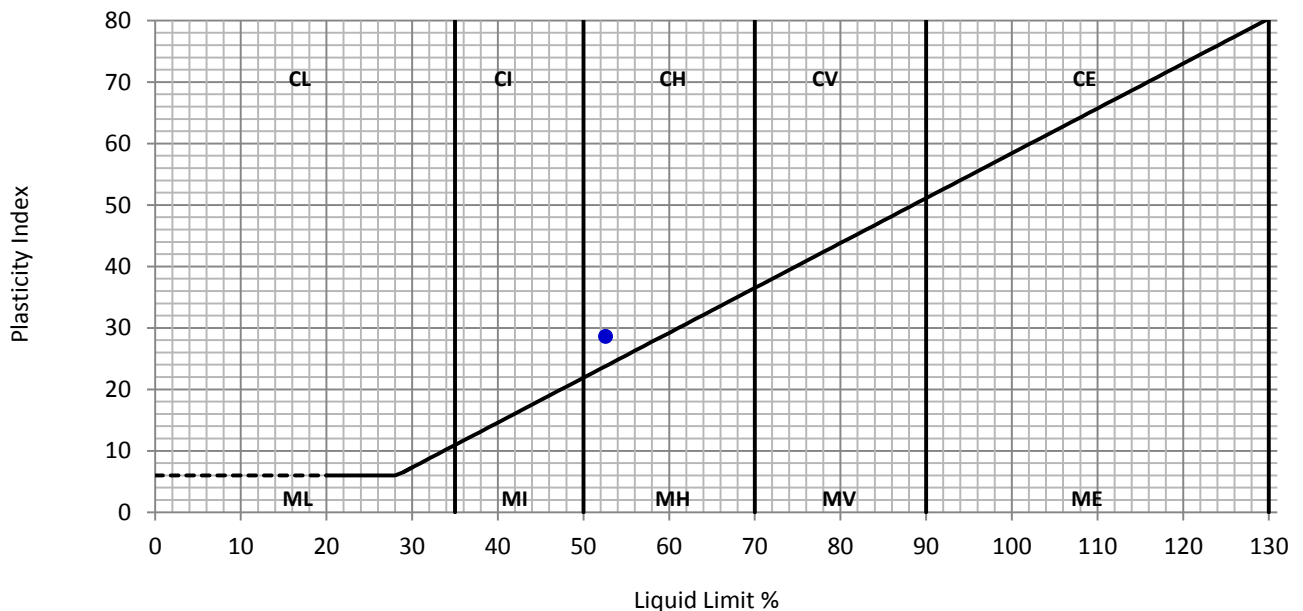
Project No:	D21558	Client:	Integral Geotechnique
Project Name:	12923 - Usk Way	Address:	Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 8PH
ATS Sample No:	26048		

Site Ref / Hole ID:	TP5	Depth (m):	2.00
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Grey slightly gravelly CLAY
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:		Material Supplier:	Site Generated
Sampled By:	Client	Specification:	BS1377
Date Received:	14 October 2021	Date Tested:	26 October 2021

Test Results

Liquid Limit	53	%
Plastic Limit	24	%
Plasticity Index	29	%

Preparation:	4.2.4 Sieved Specimen
Proportion retained on 425µm sieve:	10 %



Remarks:

TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

Project No: D21558
Project Name: 12923 - Usk Way
ATS Sample No: 26051

Client: Integral Geotechnique
Address: Integral House
 7 Beddau Way
 Castlegate Business Park
 Caerphilly
 CF83 8PH

Site Ref / Hole ID: TP6

Depth (m): 0.50

Sample No:

Sample Type: Disturbed

Sampling Certificate Received: No

Material Description: Grey slightly silty sandy GRAVEL

Location in Works: N/A

Material Source: Site Generated

Date Sampled:

Material Supplier: Site Generated

Sampled By: Client

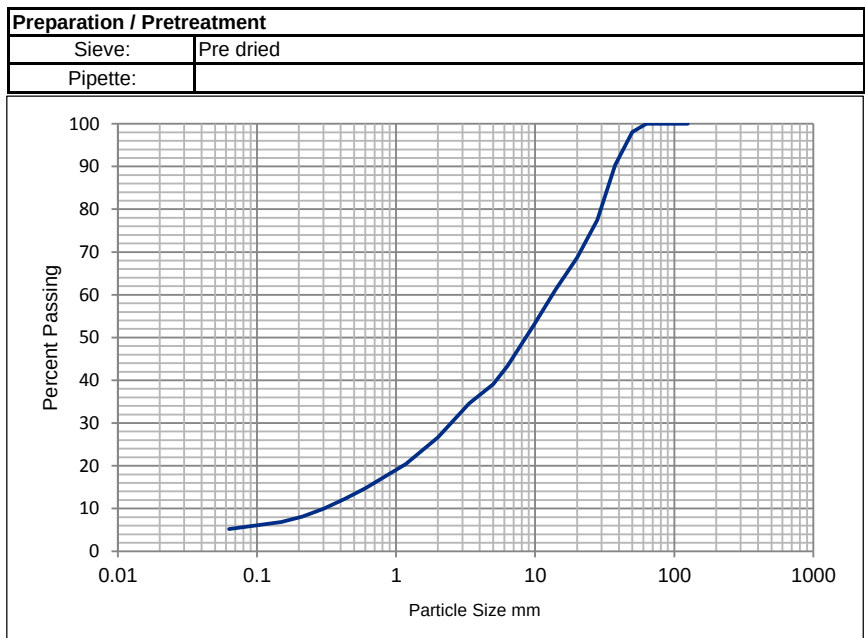
Specification: **BS1377**

Date Received: 14 October 2021

Date Tested: 26 October 2021

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	98
37.5	90
28	77
20	69
14	61
10	53
6.3	43
5.0	39
3.35	35
2.00	27
1.18	20
0.600	15
0.425	12
0.300	10
0.212	8
0.150	7
0.063	5



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D_{60} / D_{10}
Cobbles / Boulders	0	N/A	
Gravel	73		
Sand	21	Dry mass of sample, kg	
Silt / Clay	5	18.7	N/A

Remarks:

QA Ref.

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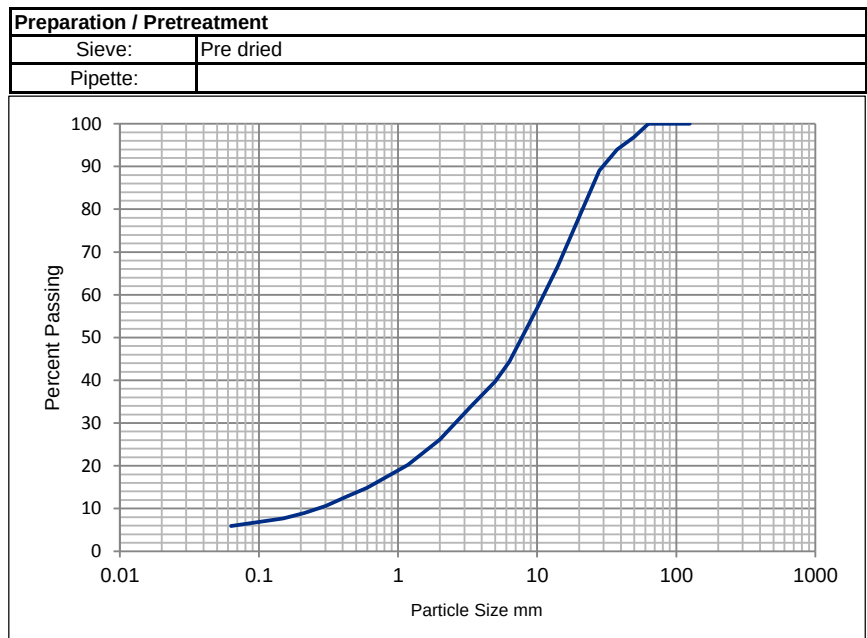
TEST REPORT
PARTICLE SIZE DISTRIBUTION ANALYSIS
BS1377:Part 2:1990

Project No:	D21558	Client:	Integral Geotechnique
Project Name:	12923 - Usk Way	Address	Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 8PH
ATS Sample No:	26052		

Site Ref / Hole ID:	TP8	Depth (m):	0.50
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown silty sandy GRAVEL
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:		Material Supplier:	Site Generated
Sampled By:	Client	Specification:	BS1377
Date Received:	14 October 2021	Date Tested:	26 October 2021

Test Results

Sieving	
Particle Size mm	% Passing
125	100
90	100
75	100
63	100
50	97
37.5	94
28	89
20	78
14	67
10	57
6.3	44
5.0	40
3.35	34
2.00	26
1.18	20
0.600	15
0.425	13
0.300	11
0.212	9
0.150	8
0.063	6



Sample Portions		Particle Density Mg/m3	Uniformity Coefficient D_{60} / D_{10}
Cobbles / Boulders	0	N/A	
Gravel	74		
Sand	20	Dry mass of sample, kg	
Silt / Clay	6	21.7	N/A

Remarks:

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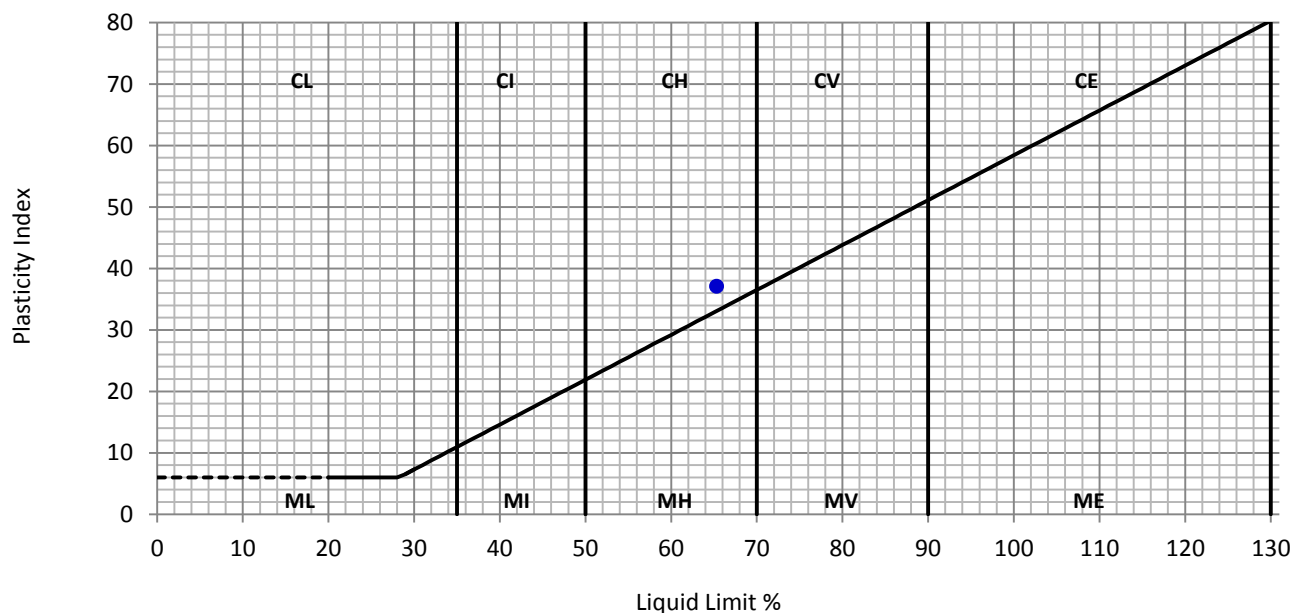
Project No:	D21558	Client:	Integral Geotechnique
Project Name:	12923 - Usk Way	Address:	Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 8PH
ATS Sample No:	26049		

Site Ref / Hole ID:	TP9	Depth (m):	1.60
Sample No:		Sample Type:	Disturbed
Sampling Certificate Received:	No	Material Description:	Brown CLAY
Location in Works:	N/A	Material Source:	Site Generated
Date Sampled:		Material Supplier:	Site Generated
Sampled By:	Client	Specification:	BS1377
Date Received:	14 October 2021	Date Tested:	19 October 2021

Test Results

Liquid Limit	65	%
Plastic Limit	28	%
Plasticity Index	37	%

Preparation:	4.2.3 Natural Specimen
Proportion retained on 425µm sieve:	2 %



Remarks:

QA Ref.

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Rev. 3.0



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