



Determination of Equivalent CBR Value derived from Plate Bearing test BS 1377-9  
Tested in accordance with In House Procedure based upon SHW Design manual IAN73/06

i2 Analytical Ltd  
7 Woodshots Meadow  
Croxley Green Business Park  
Watford Herts WD18 8YS



**Science**

Client: Delta-Simons  
Client Address: 3 Henley Office Park  
Doddington Road  
Lincoln, Lincolnshire  
LN6 3QR  
Contact: Mark James  
Testing Carried Out At: Bognor Regis

Client Reference: DS60081  
Job Number: 21-68049\_4

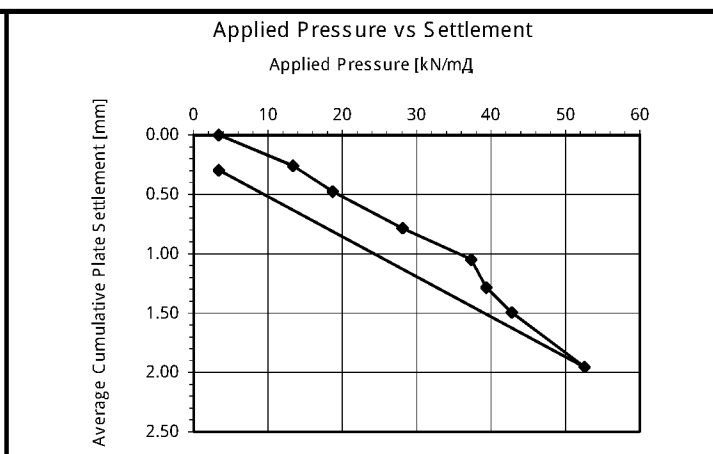
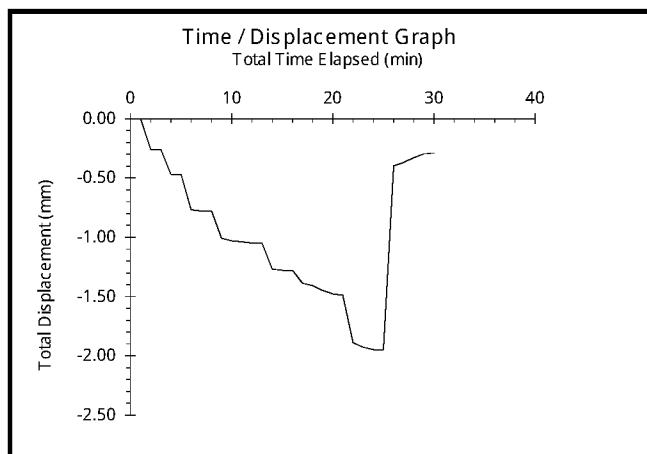
Date Tested: 14/04/2021  
Tested By: SL

## Test Results

Laboratory Reference: 68049\_4  
Test Reference: 10  
Material Description: Green/Brown/Grey CLAY  
Test Location: Test 10 CBR 8

|                       |          |
|-----------------------|----------|
| Depth Top (m):        | 0.5      |
| Layer Thickness (mm): | N/K      |
| Weather Conditions:   | Overcast |
| Kentledge Type:       | J CB 3CX |
| Plate Diameter [m]:   | 0.60     |

| Applied Load<br>[kN] | Applied Pressure<br>[kN/m <sup>2</sup> ] | Average Plate<br>Settlement [mm] |
|----------------------|------------------------------------------|----------------------------------|
| 0.96                 | 3                                        | 0.00                             |
| 3.79                 | 13                                       | 0.26                             |
| 5.29                 | 19                                       | 0.48                             |
| 7.95                 | 28                                       | 0.79                             |
| 10.56                | 37                                       | 1.05                             |
| 11.13                | 39                                       | 1.29                             |
| 12.10                | 43                                       | 1.50                             |
| 14.87                | 53                                       | 1.96                             |
| End of Test          |                                          |                                  |
| Recovery %           |                                          | -30.73%                          |



|                                  |                           |                       |                        |
|----------------------------------|---------------------------|-----------------------|------------------------|
| Pressure at 1.25mm Settlement:   | 39.1 kN/m <sup>2</sup>    | Max Applied Pressure: | 52.6 kN/m <sup>2</sup> |
| Modulus of Subgrade Reaction:    | 25.1 MN/m <sup>2</sup> /m | Maximum settlement:   | 1.96 mm                |
| Equivalent CBR By Plate Loading: | 2.6 %                     | Moisture Content:     | N/A                    |

Remarks:

Signed:

Mark Coll  
Regional Director (Geotechnical) - South

SS F68.3

Date Reported: 15/04/2021

Page: 1 of 1

for and on behalf of i2 Analytical Ltd

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Lincoln, Lincolnshire  
LN6 3QR  
Contact: Mark James  
Testing Carried Out At: Bognor Regis

Client Reference: DS60081  
Job Number: 21-68049\_5

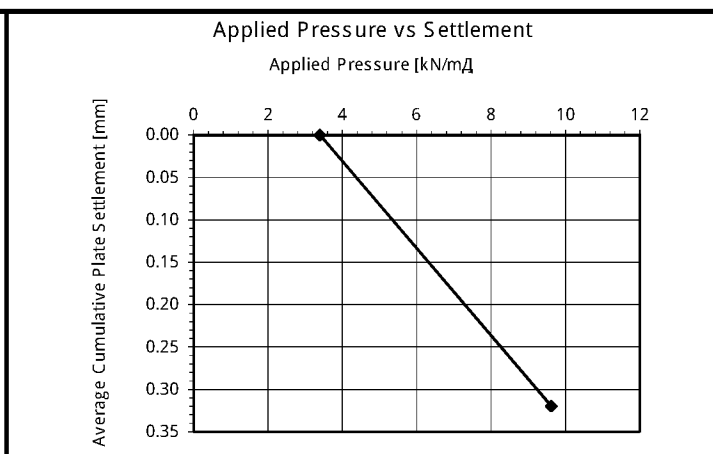
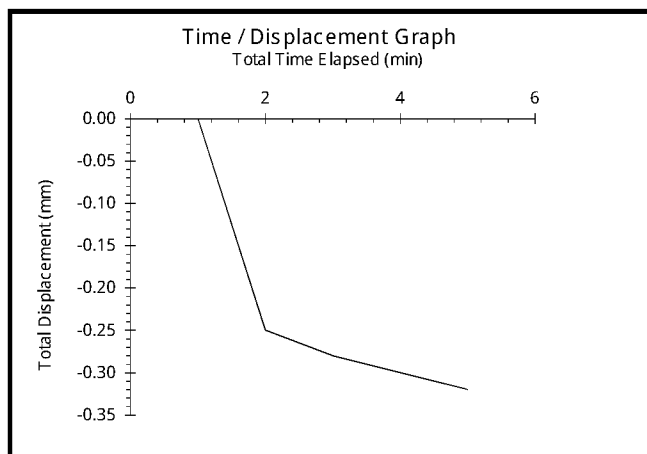
Date Tested: 14/04/2021  
Tested By: SL

## Test Results

Laboratory Reference: 68049\_5  
Test Reference: 11  
Material Description: Green/Brown/Grey CLAY  
Test Location: Test 11 CBR 11

|                       |          |
|-----------------------|----------|
| Depth Top (m):        | 0.5      |
| Layer Thickness (mm): | N/K      |
| Weather Conditions:   | Overcast |
| Kentledge Type:       | J CB 3CX |
| Plate Diameter [m]:   | 0.60     |

| Applied Load<br>[kN] | Applied Pressure<br>[kN/m <sup>2</sup> ] | Average Plate<br>Settlement [mm] |
|----------------------|------------------------------------------|----------------------------------|
| 0.96                 | 3                                        | 0.00                             |
| 2.72                 | 10                                       | 0.32                             |
|                      |                                          |                                  |
|                      |                                          |                                  |
|                      |                                          |                                  |
|                      |                                          |                                  |
|                      |                                          |                                  |
| End of Test          |                                          |                                  |
| Recovery %           |                                          |                                  |



|                                  |                           |                       |                       |
|----------------------------------|---------------------------|-----------------------|-----------------------|
| Pressure at 1.25mm Settlement:   | 36.9 kN/m <sup>2</sup>    | Max Applied Pressure: | 9.6 kN/m <sup>2</sup> |
| Modulus of Subgrade Reaction:    | 23.8 MN/m <sup>2</sup> /m | Maximum settlement:   | 0.32 mm               |
| Equivalent CBR By Plate Loading: | 2.3 %                     | Moisture Content:     | N/A                   |

Remarks: Test Terminated due to Kentledge Sinking

Signed:

Mark Collyer  
Regional Director (Geotechnical) - South

SS F68.3

Date Reported: 15/04/2021

Page: 1 of 1

for and on behalf of i2 Analytical Ltd

[illegible]



4041

## TEST CERTIFICATE

Determination of Equivalent CBR Value derived from Plate Bearing test BS 1377-9  
Tested in accordance with In House Procedure based upon SHW Design manual IAN73/06

i2 Analytical Ltd  
7 Woodshots Meadow  
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Environment Science

Client: Delta-Simons  
Client Address: 3 Henley Office Park  
Doddington Road  
Lincoln, Lincolnshire  
LN6 3QR  
Contact: Mark James  
Testing Carried Out At: Bognor Regis

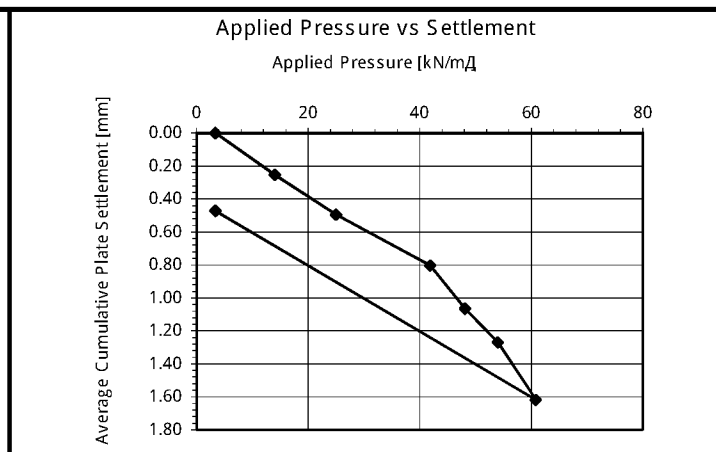
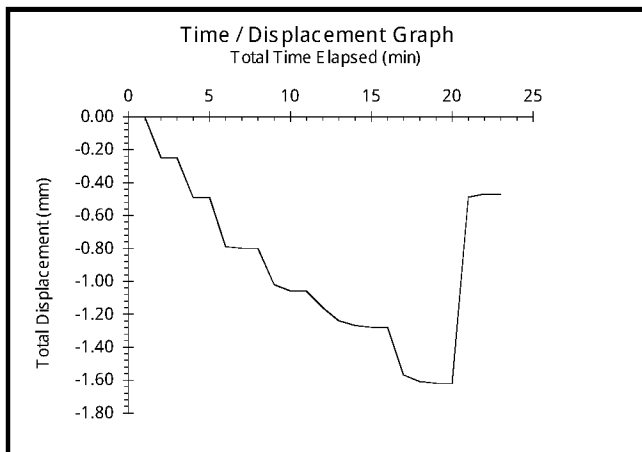
Client Reference: DS 60081  
Job Number: 21-68049\_6  
Date Tested: 14/04/2021  
Tested By: SL

**Test Results**

Laboratory Reference: 68049\_6  
Test Reference: 12  
Material Description: Green/Brown/Grey CLAY  
Test Location: Test 12 CBR 12

Depth Top (m): 0.5  
Layer Thickness (mm): N/K  
Weather Conditions: Overcast  
Kentledge Type: J CB 3CX  
Plate Diameter [m]: 0.60

| Applied Load [kN] | Applied Pressure [kN/m <sup>2</sup> ] | Average Plate Settlement [mm] |
|-------------------|---------------------------------------|-------------------------------|
| 0.96              | 3                                     | 0.00                          |
| 3.97              | 14                                    | 0.25                          |
| 7.09              | 25                                    | 0.50                          |
| 11.84             | 42                                    | 0.80                          |
| 13.61             | 48                                    | 1.07                          |
| 15.27             | 54                                    | 1.27                          |
| 17.21             | 61                                    | 1.62                          |
| 0.96              | 3                                     | 0.47                          |
| End of Test       |                                       |                               |
| Recovery %        |                                       | 70.78%                        |



Pressure at 1.25mm Settlement: 53.4 kN/m<sup>2</sup>  
Modulus of Subgrade Reaction: 34.4 MN/m<sup>2</sup>  
Equivalent CBR By Plate Loading: 4.4 %

Max Applied Pressure: 60.9 kN/m<sup>2</sup>  
Maximum settlement: 1.62 mm  
Moisture Content: N/A

Remarks:

Signed:

Mark Collyer  
Regional Director (Geotechnical) - South

SSF68.3

Date Reported: 15/04/2021

Page: 1 of 1

for and on behalf of i2 Analytical Ltd

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Environment Science

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Contact: Mark James  
Testing Carried Out At: Bognor Regis

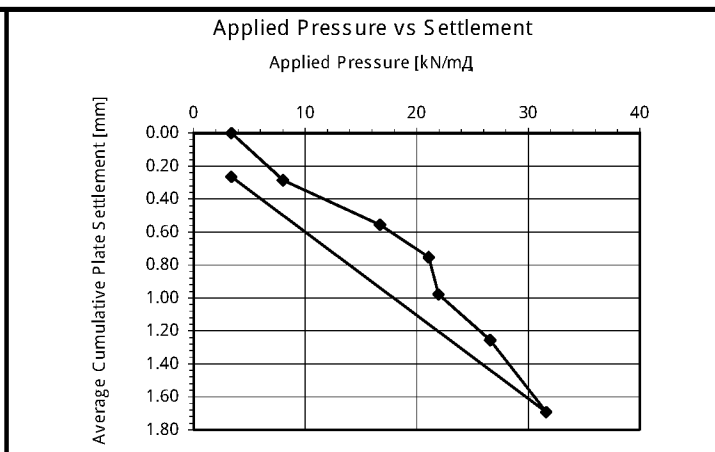
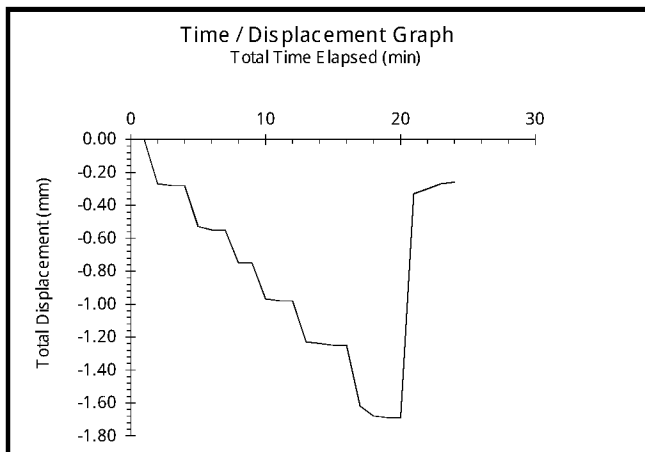
Client Reference: DS 60081  
Job Number: 21-68049\_7  
Date Tested: 14/04/2021  
Tested By: SL

**Test Results**

Laboratory Reference: 68049\_7  
Test Reference: 13  
Material Description: Green/Brown/Grey CLAY  
Test Location: Test 13 CBR 13

Depth Top (m): 0.5  
Layer Thickness (mm): N/K  
Weather Conditions: Overcast  
Kentledge Type: J CB 3CX  
Plate Diameter (m): 0.60

| Applied Load [kN] | Applied Pressure [kN/m <sup>2</sup> ] | Average Plate Settlement [mm] |
|-------------------|---------------------------------------|-------------------------------|
| 0.96              | 3                                     | 0.00                          |
| 2.27              | 8                                     | 0.29                          |
| 4.72              | 17                                    | 0.56                          |
| 5.96              | 21                                    | 0.75                          |
| 6.21              | 22                                    | 0.98                          |
| 7.52              | 27                                    | 1.26                          |
| 8.94              | 32                                    | 1.69                          |
| 0.96              | 3                                     | 0.27                          |
| End of Test       |                                       |                               |
| Recovery %        |                                       | 84.25%                        |



Pressure at 1.25mm Settlement: 26.5 kN/m<sup>2</sup>  
Modulus of Subgrade Reaction: 17.0 MN/m<sup>2</sup>  
Equivalent CBR By Plate Loading: 1.3 %

Max Applied Pressure: 31.6 kN/m<sup>2</sup>  
Maximum settlement: 1.69 mm  
Moisture Content: N/A

Remarks:

Signed:

Mark Collyer  
Regional Director (Geotechnical) - South

SSF68.3

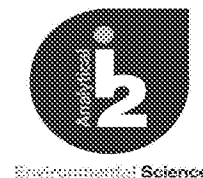
Date Reported: 15/04/2021

Page: 1 of 1

for and on behalf of i2 Analytical Ltd

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## Appendix F – Geotechnical Analysis Results



**Mark James**  
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Castle Heights  
62-64 Maid Marian Way  
Nottingham  
NG1 6BJ

i2 Analytical Ltd.  
7 Woodshots Meadow,  
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Business Park,  
Watford,  
Herts,  
WD18 8YS

## **Analytical Report Number : 21-72062**

Replaces Analytical Report Number: 21-72062, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 22/04/2021 |
| <b>Your job number:</b>     | 20-1543.07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 22/04/2021 |
| <b>Your order number:</b>   | DS60219        | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 4 soil samples |                                                        |            |

**Signed:**

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-72062  
Project / Site name: Bognor Regis  
Your Order No: DS60219

| Lab Sample Number                       |       |                    |                         | 1855350       | 1855351       | 1855352       | 1855353       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | SA02(B3)      | CP01 D4       | CP01 B8       | CP03 D14      |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.60-0.70     | 4.00-4.50     | 11.10         | 18.00-18.34   |
| Date Sampled                            |       |                    |                         | 13/04/2021    | 13/04/2021    | 13/04/2021    | 15/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 20            | 9.8           | 24            | 18            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.90          | 2.0           | 0.70          | 0.50          |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.3   | 9.2   | 8.6   | 9.1   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.025 | 0.042 | 0.057 | 0.055 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 42    | 100   | 89    | 120   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.021 | 0.050 | 0.045 | 0.059 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 21.0  | 50.4  | 44.6  | 59.0  |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.010 | 0.020 | 0.018 | 0.018 |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-72062**

**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)   | Sample Description *                   |
|-------------------|------------------|---------------|-------------|----------------------------------------|
| 1855350           | SA02(B3)         | None Supplied | 0.60-0.70   | Brown sandy clay with gravel.          |
| 1855351           | CP01 D4          | None Supplied | 4.00-4.50   | Light brown clay and sand with gravel. |
| 1855352           | CP01 B8          | None Supplied | 11.1        | Beige chalk.**                         |
| 1855353           | CP03 D14         | None Supplied | 18.00-18.34 | Beige chalk.**                         |

Non MCERTS Matrix

**Analytical Report Number : 21-72062**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

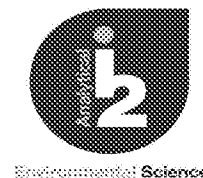
| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                           | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL    | D                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil                   | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**



**Mark James**  
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Herts,  
WD18 8YS

## **Analytical Report Number : 21-73003**

Replaces Analytical Report Number: 21-73003, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 22/04/2021 |
| <b>Your job number:</b>     | 20 1543 07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 28/04/2021 |
| <b>Your order number:</b>   |                | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 4 soil samples |                                                        |            |

**Signed:**

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-73003  
Project / Site name: Bognor Regis

|                                         |       |                    |                         |               |               |               |               |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                       |       |                    |                         | 1860409       | 1860410       | 1860411       | 1860611       |
| Sample Reference                        |       |                    |                         | CP04 D3       | CP04 B7       | CP04 D13      | CP05 B17      |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 3.00-3.45     | 8.00          | 17.00-17.45   | 21.50         |
| Date Sampled                            |       |                    |                         | 21/04/2021    | 22/04/2021    | 22/04/2021    | 23/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 17            | 29            | 17            | 23            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.40          | 2.0           | 1.0           | 0.40          |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.6   | 8.9   | 8.7   | 8.6   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.055 | 0.064 | 0.058 | 0.056 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.13  | 0.044 | 0.030 | 0.038 |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.055 | 0.020 | 0.020 | 0.020 |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-73003**

**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)   | Sample Description *             |
|-------------------|------------------|---------------|-------------|----------------------------------|
| 1860409           | CP04 D3          | None Supplied | 3.00-3.45   | Brown clay and loam with gravel. |
| 1860410           | CP04 B7          | None Supplied | 8           | White chalk.**                   |
| 1860411           | CP04 D13         | None Supplied | 17.00-17.45 | White chalk.**                   |
| 1860611           | CP05 B17         | None Supplied | 21.5        | White chalk.**                   |

\*\*Non MCERTS Matrix

**Analytical Report Number : 21-73003**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

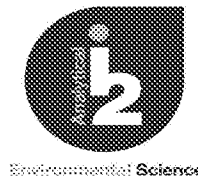
| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                           | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL    | D                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                           | L038-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**



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## **Analytical Report Number : 21-73256**

Replaces Analytical Report Number: 21-73256, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 30/04/2021 |
| <b>Your job number:</b>     | 20-1543.07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 05/05/2021 |
| <b>Your order number:</b>   | DS60219        | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 3 soil samples |                                                        |            |

**Signed:** \_\_\_\_\_

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

**Analytical Report Number: 21-73256**  
**Project / Site name: Bognor Regis**  
**Your Order No: DS60219**

|                                                 |              |                           |                                 |               |               |               |
|-------------------------------------------------|--------------|---------------------------|---------------------------------|---------------|---------------|---------------|
| <b>Lab Sample Number</b>                        |              |                           |                                 | 1861591       | 1861592       | 1861593       |
| <b>Sample Reference</b>                         |              |                           |                                 | CP06          | CP06          | CP02          |
| <b>Sample Number</b>                            |              |                           |                                 | B3            | D8            | D4            |
| <b>Depth (m)</b>                                |              |                           |                                 | 3.00          | 11.00-11.45   | 4.00-4.45     |
| <b>Date Sampled</b>                             |              |                           |                                 | 26/04/2021    | 27/04/2021    | Deviating     |
| <b>Time Taken</b>                               |              |                           |                                 | None Supplied | None Supplied | None Supplied |
| <b>Analytical Parameter<br/>(Soil Analysis)</b> | <b>Units</b> | <b>Limit of detection</b> | <b>Accreditation<br/>Status</b> |               |               |               |
| Stone Content                                   | %            | 0.1                       | NONE                            | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                                | %            | 0.01                      | NONE                            | 16            | 15            | 17            |
| Total mass of sample received                   | kg           | 0.001                     | NONE                            | 2.0           | 1.4           | 1.4           |

**General Inorganics**

|                                                                         |          |         |        |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.3   | 8.5   | 8.8   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.040 | 0.063 | 0.065 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.050 | 0.031 | 0.037 |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.012 | 0.019 | 0.022 |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-73256**

**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)   | Sample Description *       |
|-------------------|------------------|---------------|-------------|----------------------------|
| 1861591           | CP06             | B3            | 3           | Brown clay with gravel.    |
| 1861592           | CP06             | D8            | 11.00-11.45 | Beige chalk.**             |
| 1861593           | CP02             | D4            | 4.00-4.45   | Beige chalk with gravel.** |

\*\*Non MCERTS Matrix

**Analytical Report Number : 21-73256**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                           | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL    | D                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                           | L038-PL       | D                  | MCERTS               |

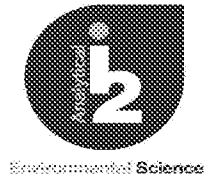
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

## Sample Deviation Report

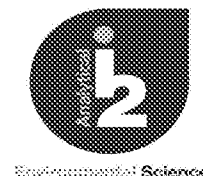


Analytical Report Number : 21-73256  
Project / Site name: Bognor Regis

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name     | Test Ref      | Test Deviation |
|-----------|----------|-------------|-------------------|------------------|---------------|---------------|----------------|
| CP02      | D4       | S           | 1861593           | a                | None Supplied | None Supplied | None Supplied  |

Key: a - No sampling date b - Incorrect container  
c - Holding time d - Headspace e - Temperature

Iss No 21-73256-2 Bognor Regis 20-1543.07  
Page 5 of 5



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## **Analytical Report Number : 21-73502**

Replaces Analytical Report Number: 21-73502, issue no. 1  
Client references/information amended.

|                             |               |                                                        |            |
|-----------------------------|---------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis  | <b>Samples received on:</b>                            | 30/04/2021 |
| <b>Your job number:</b>     | 20-1543.07    | <b>Samples instructed on/<br/>Analysis started on:</b> | 07/05/2021 |
| <b>Your order number:</b>   | DS60879       | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2             | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 1 soil sample |                                                        |            |

**Signed:**

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

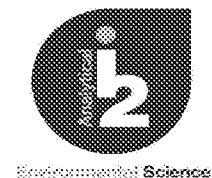
**Analytical Report Number: 21-73502**  
**Project / Site name: Bognor Regis**  
**Your Order No: DS60879**

| <b>Lab Sample Number</b>                |       |                    |                         |       | 1862974       |
|-----------------------------------------|-------|--------------------|-------------------------|-------|---------------|
| <b>Sample Reference</b>                 |       |                    |                         |       | TP209         |
| <b>Sample Number</b>                    |       |                    |                         |       | 4             |
| <b>Depth (m)</b>                        |       |                    |                         |       | 0.60-0.60     |
| <b>Date Sampled</b>                     |       |                    |                         |       | 30/04/2021    |
| <b>Time Taken</b>                       |       |                    |                         |       | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |       |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1 |               |
| Moisture Content                        | %     | 0.01               | NONE                    | 15    |               |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.0   |               |

**General Inorganics**

|                            |   |     |        |     |
|----------------------------|---|-----|--------|-----|
| Organic Matter             | % | 0.1 | MCERTS | 0.5 |
| Total Organic Carbon (TOC) | % | 0.1 | MCERTS | 0.3 |

U/S = Unsuitable Sample    I/S = Insufficient Sample



**Analytical Report Number : 21-73502**

**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                            |
|-------------------|------------------|---------------|-----------|-------------------------------------------------|
| 1862974           | TP209            | 4             | 0.60-0.60 | Brown clay and sand with gravel and vegetation. |

**Analytical Report Number : 21-73502**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

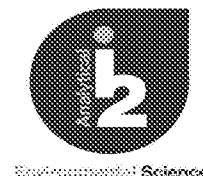
| Analytical Test Name                     | Analytical Method Description                                                                                                 | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Moisture Content                         | Moisture content, determined gravimetrically. (30 oC)                                                                         | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| Organic matter (Automated) in soil       | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method.                                                           | L009-PL       | D                  | MCERTS               |
| Stones content of soil                   | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.   | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL    | D                  | NONE                 |
| Total organic carbon (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate. | In house method.                                                           | L009-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**



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## **Analytical Report Number : 21-74580**

Replaces Analytical Report Number: 21-74580, issue no. 2  
Client references/information amended.

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis    | <b>Samples received on:</b>                            | 04/05/2021 |
| <b>Your job number:</b>     | 20-1543.07      | <b>Samples instructed on/<br/>Analysis started on:</b> | 11/05/2021 |
| <b>Your order number:</b>   | DS60976         | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 3               | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 22 soil samples |                                                        |            |

**Signed**

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

**Analytical Report Number: 21-74580**  
**Project / Site name: Bognor Regis**  
**Your Order No: DS60976**

| Lab Sample Number                       | 1869111       | 1869112            | 1869113                 | 1869114       | 1869115       |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        | TP201         | TP217              | TP205                   | TP205         | TP204         |
| Sample Number                           | B4            | B4                 | B4                      | B6            | B8            |
| Depth (m)                               | 1.00-1.20     | 1.00-1.20          | 1.00-1.20               | 2.00-2.20     | 2.90-3.00     |
| Date Sampled                            | 29/04/2021    | 28/04/2021         | Deviating               | Deviating     | Deviating     |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |
| Stone Content                           | %             | 0.1                | NONE                    | < 0.1         | < 0.1         |
| Moisture Content                        | %             | 0.01               | NONE                    | 13            | 13            |
| Total mass of sample received           | kg            | 0.001              | NONE                    | 0.50          | 0.50          |

#### General Inorganics

| pH - Automated                                                          | pH Units | N/A     | MCERTS | -   | 7.7   | 8.3   | 8.8   | 8.9   |
|-------------------------------------------------------------------------|----------|---------|--------|-----|-------|-------|-------|-------|
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -   | 0.030 | 0.025 | 0.040 | 0.042 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | -   | 0.029 | 0.032 | 0.016 | 0.019 |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -   | 0.011 | 0.014 | 0.016 | 0.014 |
| Organic Matter                                                          | %        | 0.1     | MCERTS | 1.0 | 0.3   | 0.6   | -     | -     |

#### Initial Consumption of Lime Test

|                      |          |     |        |   |   |   |   |   |
|----------------------|----------|-----|--------|---|---|---|---|---|
| pH @ lime content 1% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 2% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 3% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 4% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 5% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 6% | pH Units | N/A | MCERTS | - | - | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number: 21-74580**  
**Project / Site name: Bognor Regis**  
**Your Order No: DS60976**

| Lab Sample Number                    |       |                    |                      | 1869116       | 1869117       | 1869118       | 1869119       | 1869120       |
|--------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                     |       |                    |                      | TP211         | TP203         | TP214         | TP206         | TP209         |
| Sample Number                        |       |                    |                      | B5            | D7            | None Supplied | B8            | B8            |
| Depth (m)                            |       |                    |                      | 1.00-1.20     | 2.00          | 2.00          | 2.90-3.00     | 2.00          |
| Date Sampled                         |       |                    |                      | 30/04/2021    | 28/04/2021    | Deviating     | 29/04/2021    | Deviating     |
| Time Taken                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
| Stone Content                        | %     | 0.1                | NONE                 | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                     | %     | 0.01               | NONE                 | 12            | 14            | 13            | 20            | 16            |
| Total mass of sample received        | kg    | 0.001              | NONE                 | 0.50          | 0.50          | 1.0           | 0.50          | 0.50          |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.6   | 8.4   | -     | 8.9   | 8.1   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.029 | 0.023 | -     | 0.044 | 0.015 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.012 | 0.014 | -     | 0.022 | 0.016 |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.012 | 0.009 | -     | 0.018 | 0.007 |
| Organic Matter                                                          | %        | 0.1     | MCERTS | -     | 1.1   | < 0.1 | -     | 0.5   |

#### Initial Consumption of Lime Test

|                      |          |     |        |   |   |   |   |   |
|----------------------|----------|-----|--------|---|---|---|---|---|
| pH @ lime content 1% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 2% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 3% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 4% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 5% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 6% | pH Units | N/A | MCERTS | - | - | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-74580  
Project / Site name: Bognor Regis  
Your Order No: DS60976

| Lab Sample Number                    |       |                    |                      | 1869121       | 1869122       | 1869123       | 1869124       | 1869125       |
|--------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                     |       |                    |                      | TP218         | TP209         | TP211         | TP220         | TP209         |
| Sample Number                        |       |                    |                      | B4            | B10           | B10           | B6            | B5            |
| Depth (m)                            |       |                    |                      | 1.00          | 3.00          | 3.00          | 2.00          | 1.00          |
| Date Sampled                         |       |                    |                      | Deviating     | Deviating     | Deviating     | Deviating     | Deviating     |
| Time Taken                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
| Stone Content                        | %     | 0.1                | NONE                 | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                     | %     | 0.01               | NONE                 | 17            | 16            | 14            | 14            | 16            |
| Total mass of sample received        | kg    | 0.001              | NONE                 | 0.50          | 0.50          | 0.50          | 0.50          | 0.50          |

#### General Inorganics

|                                                                         |          |         |        |     |     |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-----|-----|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | -   | -   | 8.7   | 8.4   | 7.9   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -   | -   | 0.034 | 0.035 | 0.027 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | -   | -   | 0.014 | 0.012 | 0.015 |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -   | -   | 0.013 | 0.014 | 0.011 |
| Organic Matter                                                          | %        | 0.1     | MCERTS | 1.2 | 1.1 | -     | -     | 0.4   |

#### Initial Consumption of Lime Test

|                      |          |     |        |   |   |   |   |   |
|----------------------|----------|-----|--------|---|---|---|---|---|
| pH @ lime content 1% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 2% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 3% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 4% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 5% | pH Units | N/A | MCERTS | - | - | - | - | - |
| pH @ lime content 6% | pH Units | N/A | MCERTS | - | - | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-74580  
Project / Site name: Bognor Regis  
Your Order No: DS60976

| Lab Sample Number                       | 1869126       | 1869127            | 1869128                 | 1869129       | 1869130       |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        | TP217-TP201   | TP219-TP203        | TP220-TP206             | TP214-TP210   | TP211-TP207   |
| Sample Number                           | B6-B8         | B4-B6              | B4-B6                   | B5-B6         | B8-B9         |
| Depth (m)                               | 1.00-3.00     | 1.00-2.20          | 1.00-2.20               | 1.00-3.00     | 1.00-2.20     |
| Date Sampled                            | 28/04/2021    | 28/04/2021         | 29/04/2021              | 29/04/2021    | 30/04/2021    |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |
| Stone Content                           | %             | 0.1                | NONE                    | < 0.1         | < 0.1         |
| Moisture Content                        | %             | 0.01               | NONE                    | 15            | 12            |
| Total mass of sample received           | kg            | 0.001              | NONE                    | 2.0           | 1.5           |

#### General Inorganics

|                                                                         |          |         |        |     |     |     |     |     |
|-------------------------------------------------------------------------|----------|---------|--------|-----|-----|-----|-----|-----|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -   | -   | -   | -   | -   |
| Organic Matter                                                          | %        | 0.1     | MCERTS | 0.4 | 1.7 | 0.5 | 3.0 | 0.3 |

#### Initial Consumption of Lime Test

|                      |          |     |        |      |      |      |      |      |
|----------------------|----------|-----|--------|------|------|------|------|------|
| pH @ lime content 1% | pH Units | N/A | MCERTS | 12.0 | 12.1 | 11.9 | 11.8 | 11.9 |
| pH @ lime content 2% | pH Units | N/A | MCERTS | 12.1 | 12.1 | 12.0 | 11.9 | 12.0 |
| pH @ lime content 3% | pH Units | N/A | MCERTS | 12.1 | 12.1 | 12.1 | 12.0 | 12.0 |
| pH @ lime content 4% | pH Units | N/A | MCERTS | 12.1 | 12.1 | 12.1 | 12.0 | 12.0 |
| pH @ lime content 5% | pH Units | N/A | MCERTS | 12.1 | 12.2 | 12.1 | 12.0 | 12.0 |
| pH @ lime content 6% | pH Units | N/A | MCERTS | 12.1 | 12.2 | 12.1 | 12.0 | 12.0 |

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-74580  
 Project / Site name: Bognor Regis  
 Your Order No: DS60976

| Lab Sample Number                       |       |                    |                         | 1894596       | 1894597       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP205-TP206   | TP219-TP204   |
| Sample Number                           |       |                    |                         | B8            | B6            |
| Depth (m)                               |       |                    |                         | 2.90-3.00     | 2.00-2.20     |
| Date Sampled                            |       |                    |                         | 29/04/2021    | 29/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 19            | 19            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.0           | 1.0           |

#### General Inorganics

|                                                                         |          |         |        |   |   |
|-------------------------------------------------------------------------|----------|---------|--------|---|---|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | - | - |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | - | - |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | - | - |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | - | - |
| Organic Matter                                                          | %        | 0.1     | MCERTS | - | - |

#### Initial Consumption of Lime Test

|                      |          |     |        |      |      |
|----------------------|----------|-----|--------|------|------|
| pH @ lime content 1% | pH Units | N/A | MCERTS | 12.7 | 12.6 |
| pH @ lime content 2% | pH Units | N/A | MCERTS | 12.8 | 12.6 |
| pH @ lime content 3% | pH Units | N/A | MCERTS | 12.8 | 12.7 |
| pH @ lime content 4% | pH Units | N/A | MCERTS | 12.8 | 12.7 |
| pH @ lime content 5% | pH Units | N/A | MCERTS | 12.8 | 12.7 |
| pH @ lime content 6% | pH Units | N/A | MCERTS | 12.9 | 12.7 |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-74580**  
**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                   |
|-------------------|------------------|---------------|-----------|----------------------------------------|
| 1869111           | TP201            | B4            | 1.00-1.20 | Brown clay and sand with gravel.       |
| 1869112           | TP217            | B4            | 1.00-1.20 | Brown clay and sand.                   |
| 1869113           | TP205            | B4            | 1.00-1.20 | Brown clay and sand with chalk.        |
| 1869114           | TP205            | B6            | 2.00-2.20 | Light brown clay and sand with chalk.  |
| 1869115           | TP204            | B8            | 2.90-3.00 | Beige clay and sand with chalk.        |
| 1869116           | TP211            | B5            | 1.00-1.20 | Light brown sandy clay with gravel.    |
| 1869117           | TP203            | D7            | 2         | Brown clay and sand.                   |
| 1869118           | TP214            | None Supplied | 2         | Light brown clay and sand with gravel. |
| 1869119           | TP206            | B8            | 2.90-3.00 | Beige clay and sand with gravel.       |
| 1869120           | TP209            | B8            | 2         | Light brown clay and sand.             |
| 1869121           | TP218            | B4            | 1         | Brown clay and sand.                   |
| 1869122           | TP209            | B10           | 3         | Beige clay and sand with stones.       |
| 1869123           | TP211            | B10           | 3         | Beige clay and sand with gravel.       |
| 1869124           | TP220            | B6            | 2         | Light brown clay and sand with gravel. |
| 1869125           | TP209            | B5            | 1         | Brown clay and sand with gravel.       |
| 1869126           | TP217-TP201      | B6-B8         | 1.00-3.00 | Brown clay and sand.                   |
| 1869127           | TP219-TP203      | B4-B6         | 1.00-2.20 | Brown clay and sand.                   |
| 1869128           | TP220-TP206      | B4-B6         | 1.00-2.20 | Light brown clay and sand with gravel. |
| 1869129           | TP214-TP210      | B5-B6         | 1.00-3.00 | Light brown sandy clay with gravel.    |
| 1869130           | TP211-TP207      | B8-B9         | 1.00-2.20 | Light brown sand with gravel.          |
| 1894596           | TP205-TP206      | B8            | 2.90-3.00 | Beige clay with chalk and gravel.      |
| 1894597           | TP219-TP204      | B6            | 2.00-2.20 | Beige clay with chalk and gravel.      |

**Analytical Report Number : 21-74580**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Initial Consumption of Lime                        | Initial Consumption of Lime Test - pH at different lime content                                                                                           | In house method based on BS 1924:1990.                                     | L005-PL       | W                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                             | In house method.                                                           | L009-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                           | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements. | L019-UK/PL    | D                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                           | L038-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

## Sample Deviation Report



Analytical Report Number : 21-74580

Project / Site name: Bognor Regis

| Sample ID   | Other ID      | Sample Type | Lab Sample Number | Sample Deviation | Test Name                   | Test Ref      | Test Deviation |
|-------------|---------------|-------------|-------------------|------------------|-----------------------------|---------------|----------------|
| TP204       | B8            | S           | 1869115           | a                | None Supplied               | None Supplied | None Supplied  |
| TP205       | B4            | S           | 1869113           | a                | None Supplied               | None Supplied | None Supplied  |
| TP205       | B6            | S           | 1869114           | a                | None Supplied               | None Supplied | None Supplied  |
| TP205-TP206 | B8            | S           | 1894596           | c                | Initial Consumption of Lime | L005-PL       | c              |
| TP209       | B10           | S           | 1869122           | a                | None Supplied               | None Supplied | None Supplied  |
| TP209       | B5            | S           | 1869125           | a                | None Supplied               | None Supplied | None Supplied  |
| TP209       | B8            | S           | 1869120           | a                | None Supplied               | None Supplied | None Supplied  |
| TP211       | B10           | S           | 1869123           | a                | None Supplied               | None Supplied | None Supplied  |
| TP214       | None Supplied | S           | 1869118           | a                | None Supplied               | None Supplied | None Supplied  |
| TP218       | B4            | S           | 1869121           | a                | None Supplied               | None Supplied | None Supplied  |
| TP219-TP204 | B6            | S           | 1894597           | c                | Initial Consumption of Lime | L005-PL       | c              |
| TP220       | B6            | S           | 1869124           | a                | None Supplied               | None Supplied | None Supplied  |

Key: a - No sampling date b - Incorrect container  
c - Holding time d - Headspace e - Temperature

Iss No 21-74580-3 Bognor Regis 20-1543.07  
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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

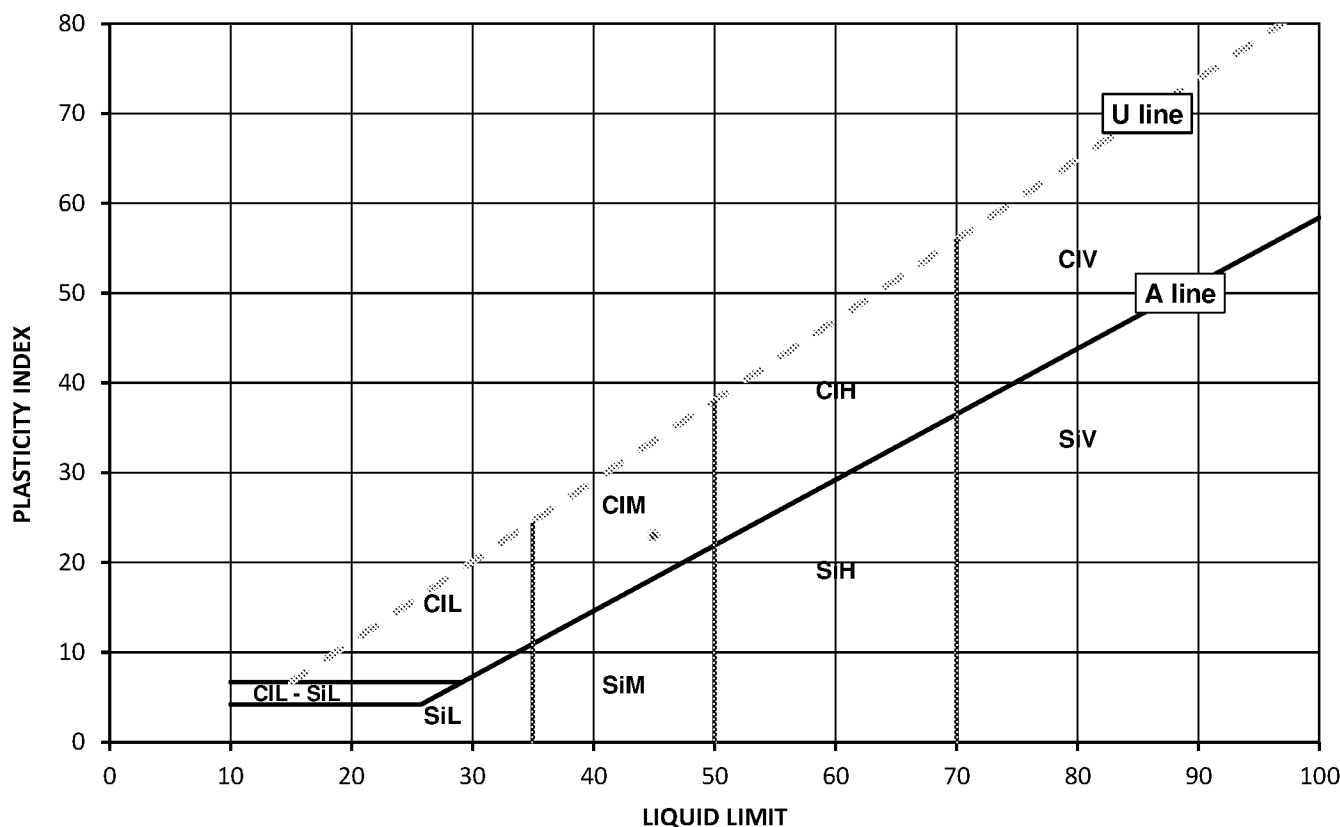
### Test Results:

Laboratory Reference: 1855116  
Hole No.: CP01 D2  
Sample Reference: Not Given  
Soil Description: Brown slightly sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 32                                   | 45                    | 22                     | 23                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

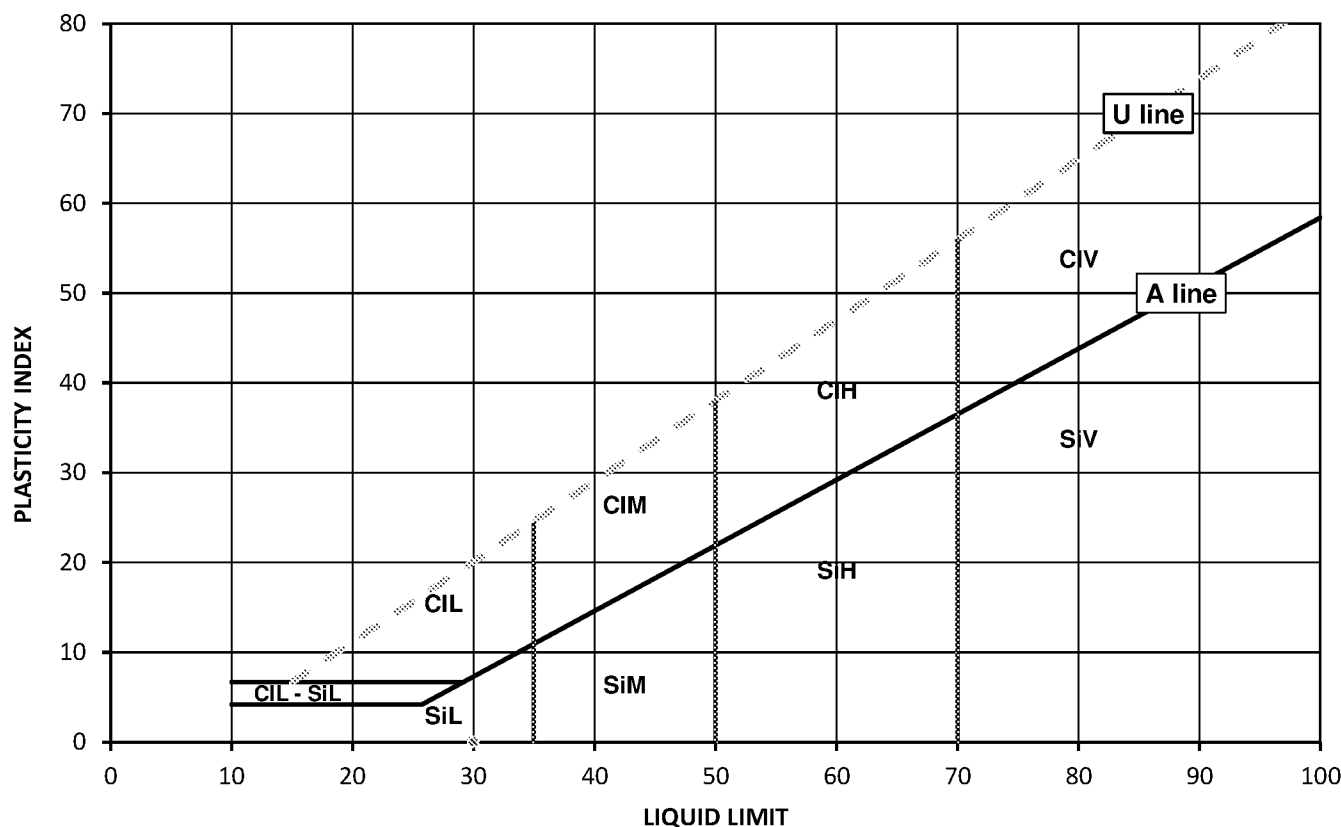
### Test Results:

Laboratory Reference: 1855117  
Hole No.: CP01 D3  
Sample Reference: Not Given  
Soil Description: Grey slightly clayey SAND

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 30                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 1: Site name amended

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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

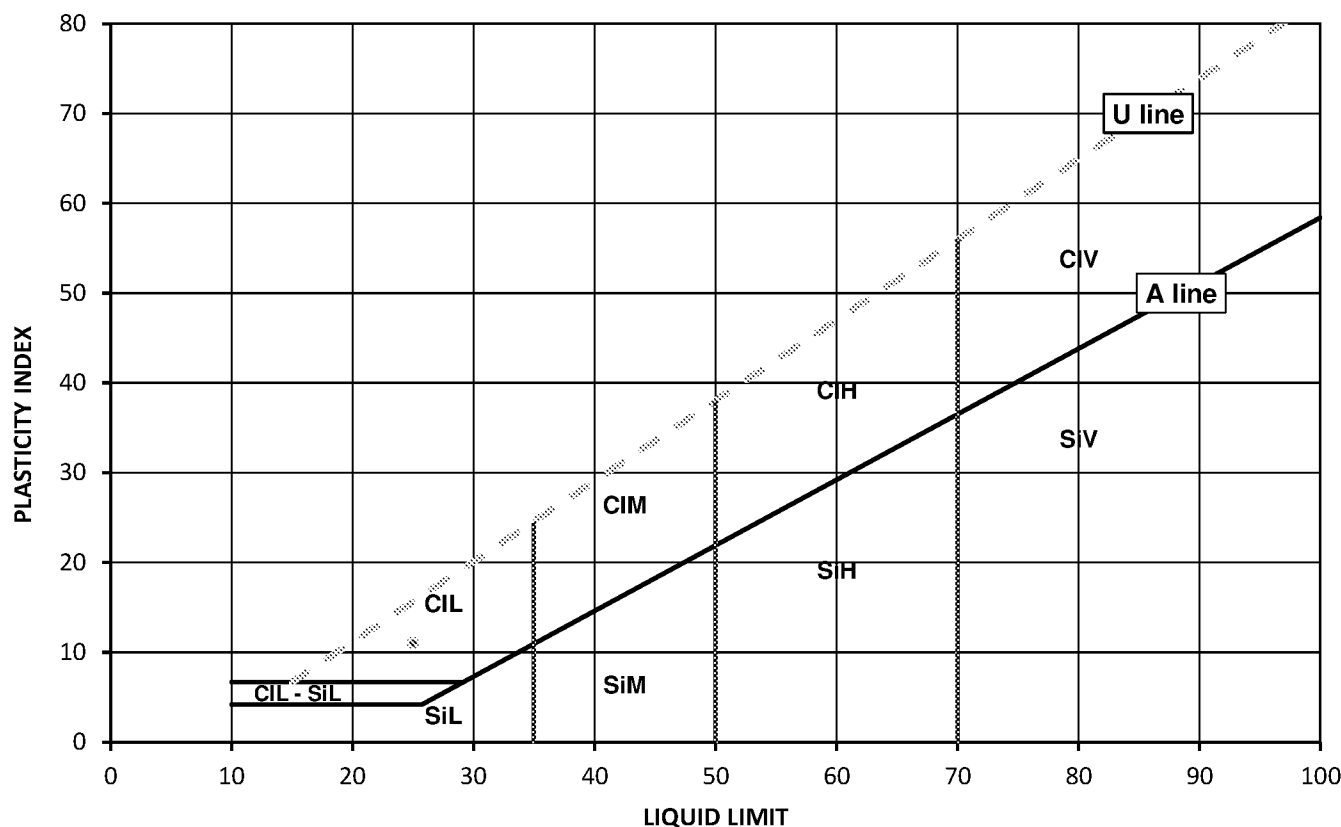
### Test Results:

Laboratory Reference: 1855118  
Hole No.: CP01 D5  
Sample Reference: Not Given  
Soil Description: Light brown very sandy CLAY

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 20                                   | 25                    | 14                     | 11                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

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Environmental Science

4041

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Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 18/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

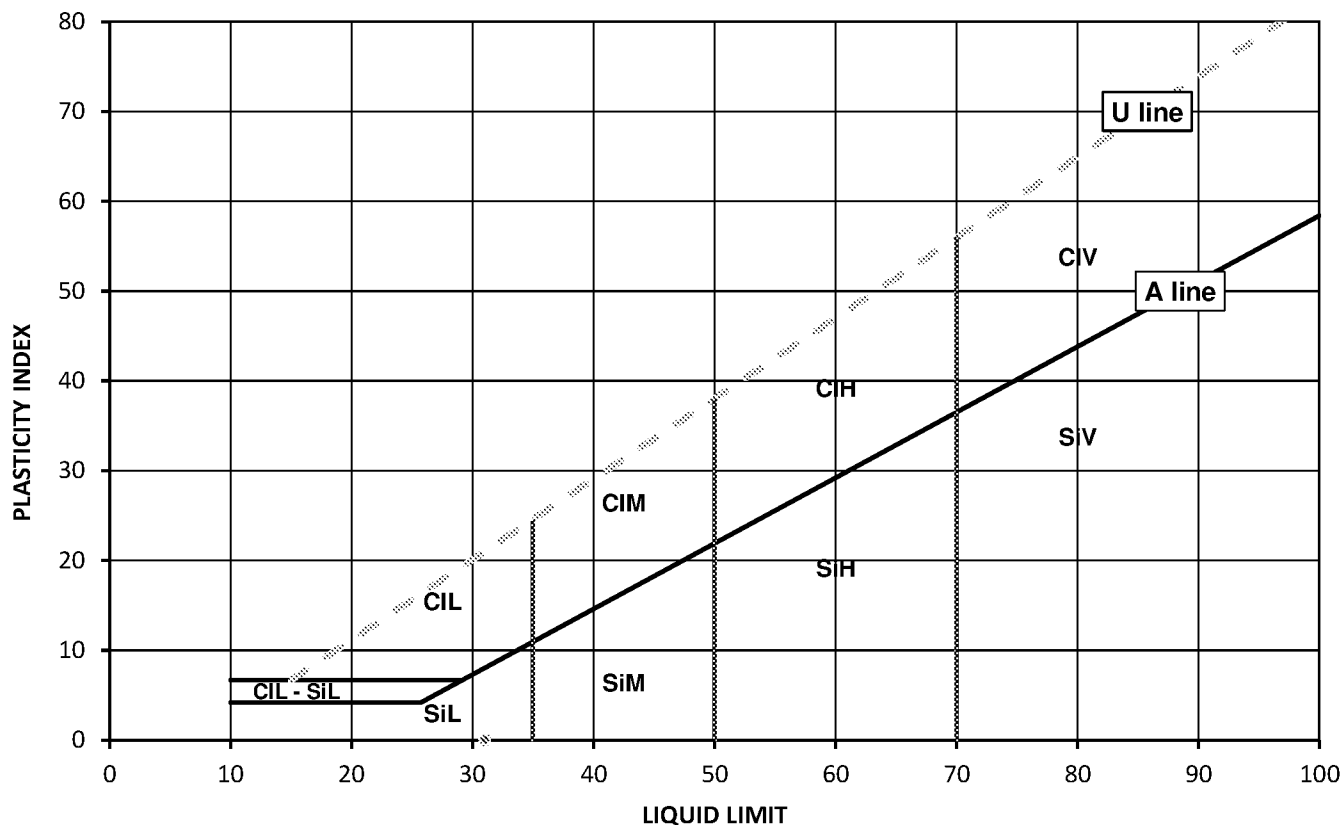
### Test Results:

Laboratory Reference: 1855120  
Hole No.: CP01 D10  
Sample Reference: Not Given  
Soil Description: White CHALK

Depth Top [m]: 12.50  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 38                                   | 31                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz

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Deputy Head of Geotechnical Section  
on behalf of i2 Analytical Ltd

Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 18/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

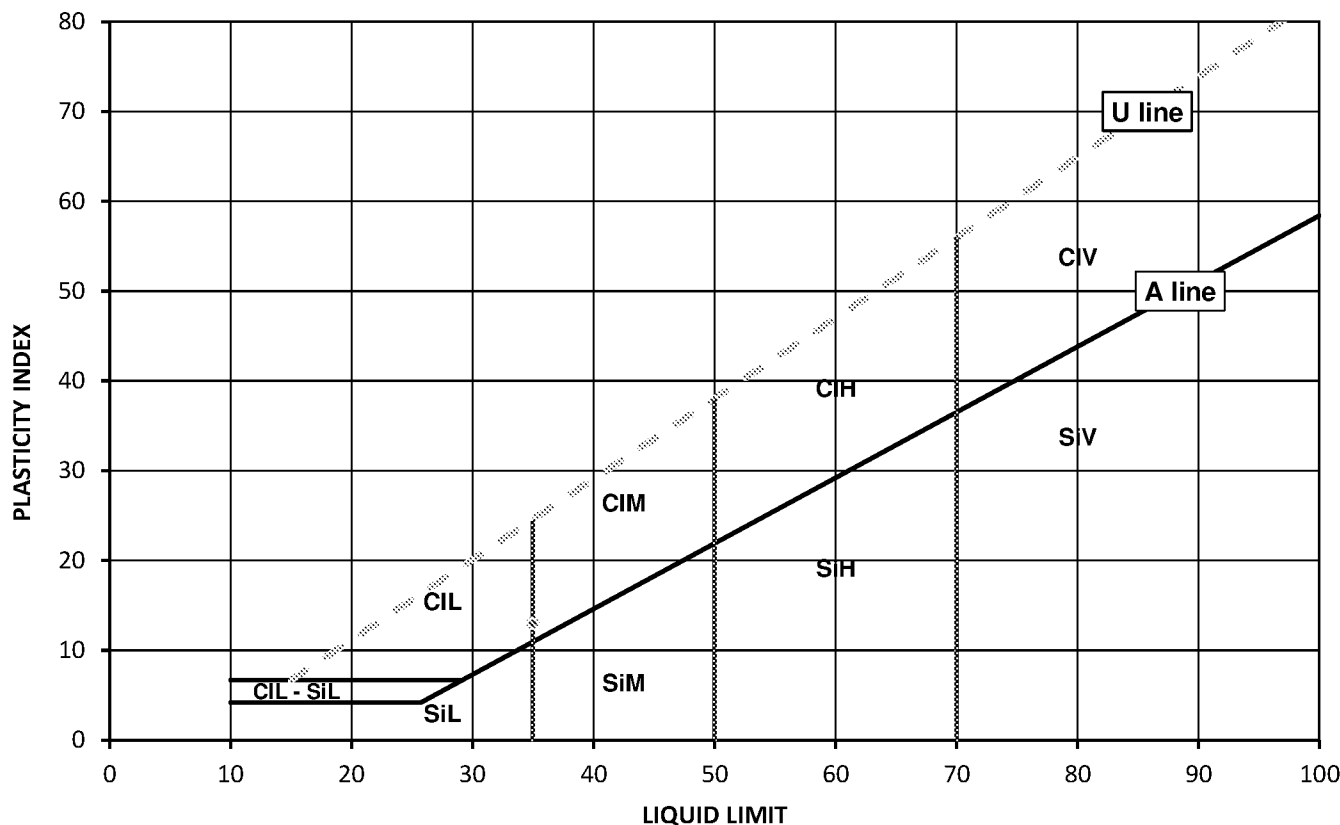
### Test Results:

Laboratory Reference: 1855121  
Hole No.: CP01 D11  
Sample Reference: Not Given  
Soil Description: White clayey CHALK

Depth Top [m]: 14.00  
Depth Base [m]: 15.00  
Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 34                                   | 35                    | 22                     | 13                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

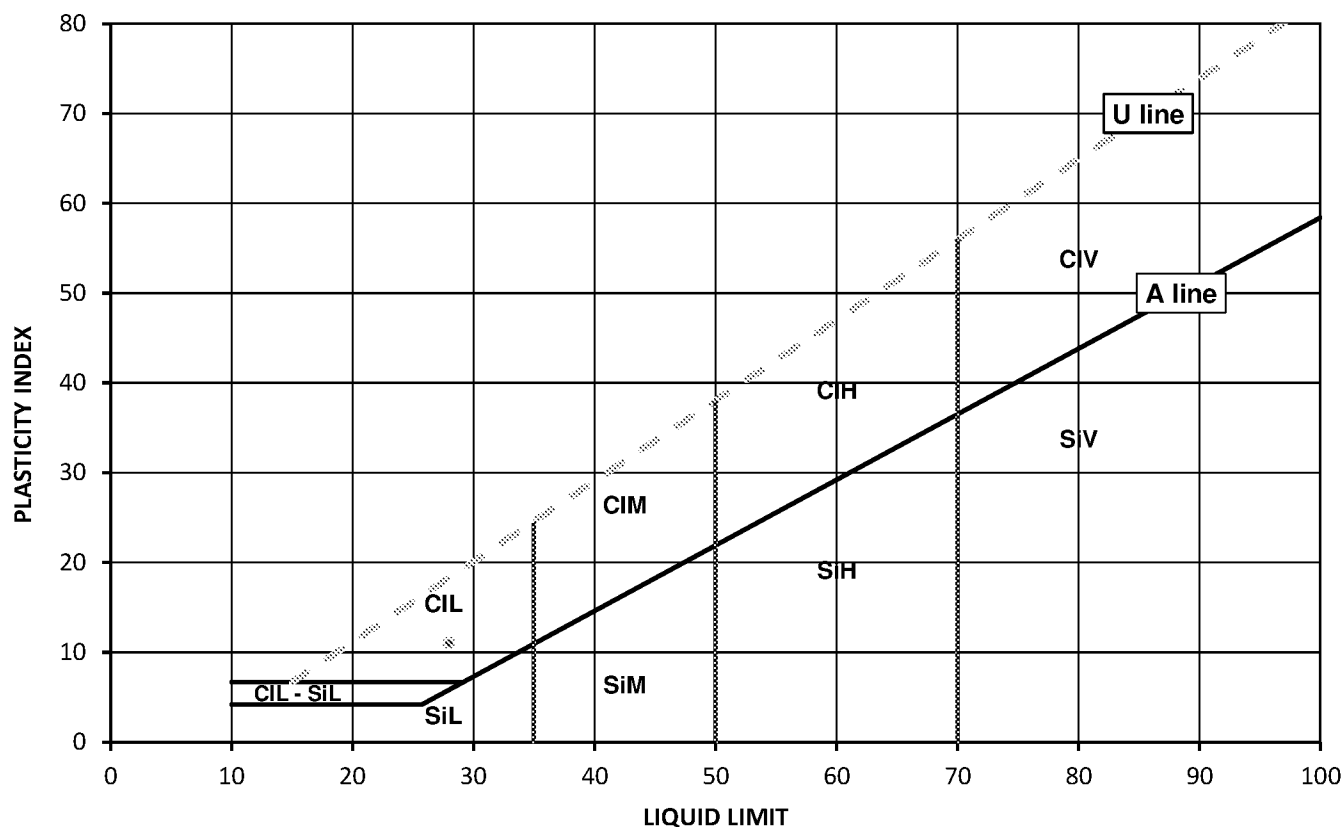
### Test Results:

Laboratory Reference: 1855124  
Hole No.: CP03 D7  
Sample Reference: Not Given  
Soil Description: Cream colour slightly clayey CHALK

Depth Top [m]: 7.50  
Depth Base [m]: 7.95  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 28                                   | 28                    | 17                     | 11                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz

Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Reported: 28/07/2021

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Unit 8 Harrowden Road  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 15/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

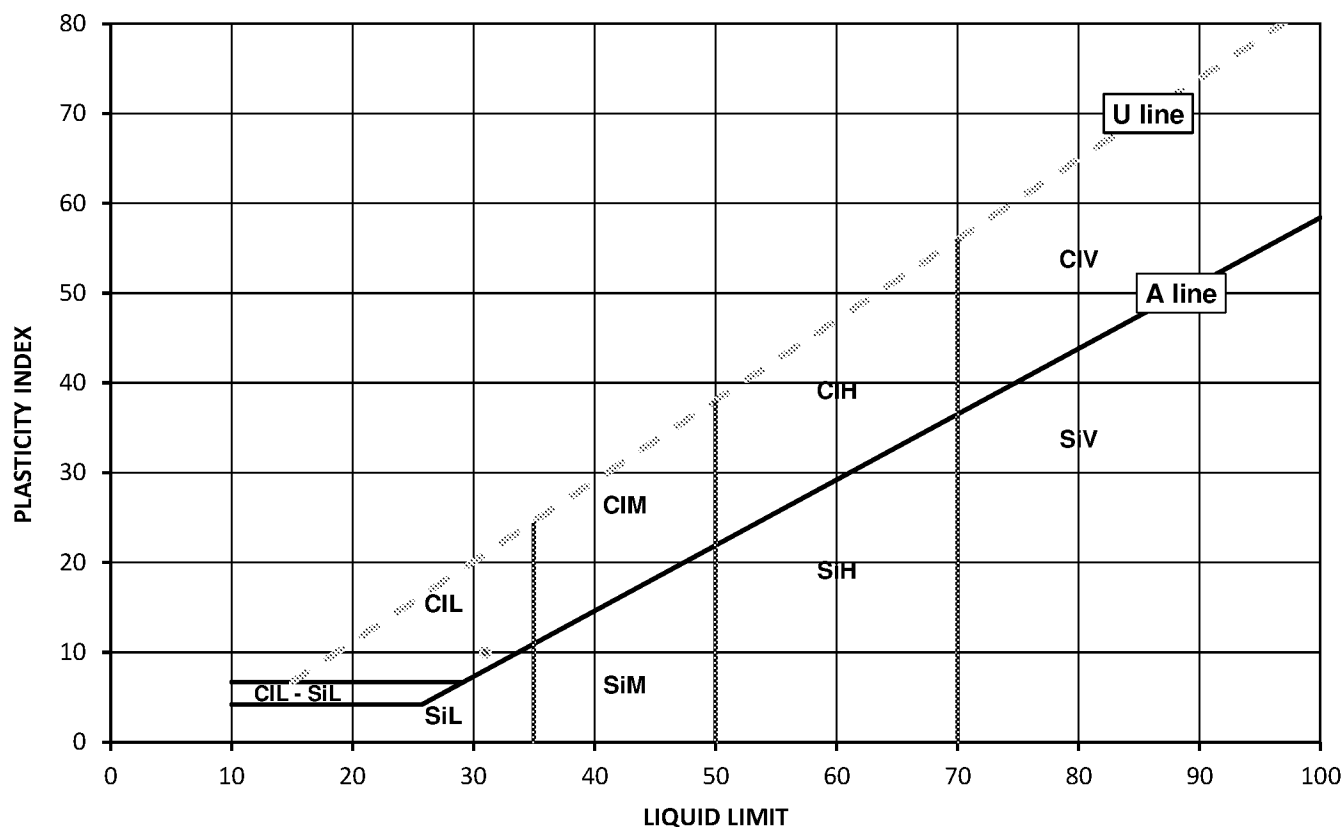
### Test Results:

Laboratory Reference: 1855126  
Hole No.: CP03 D12  
Sample Reference: Not Given  
Soil Description: Cream colour slightly clayey CHALK

Depth Top [m]: 15.00  
Depth Base [m]: 15.45  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 31                    | 21                     | 10                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 16/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

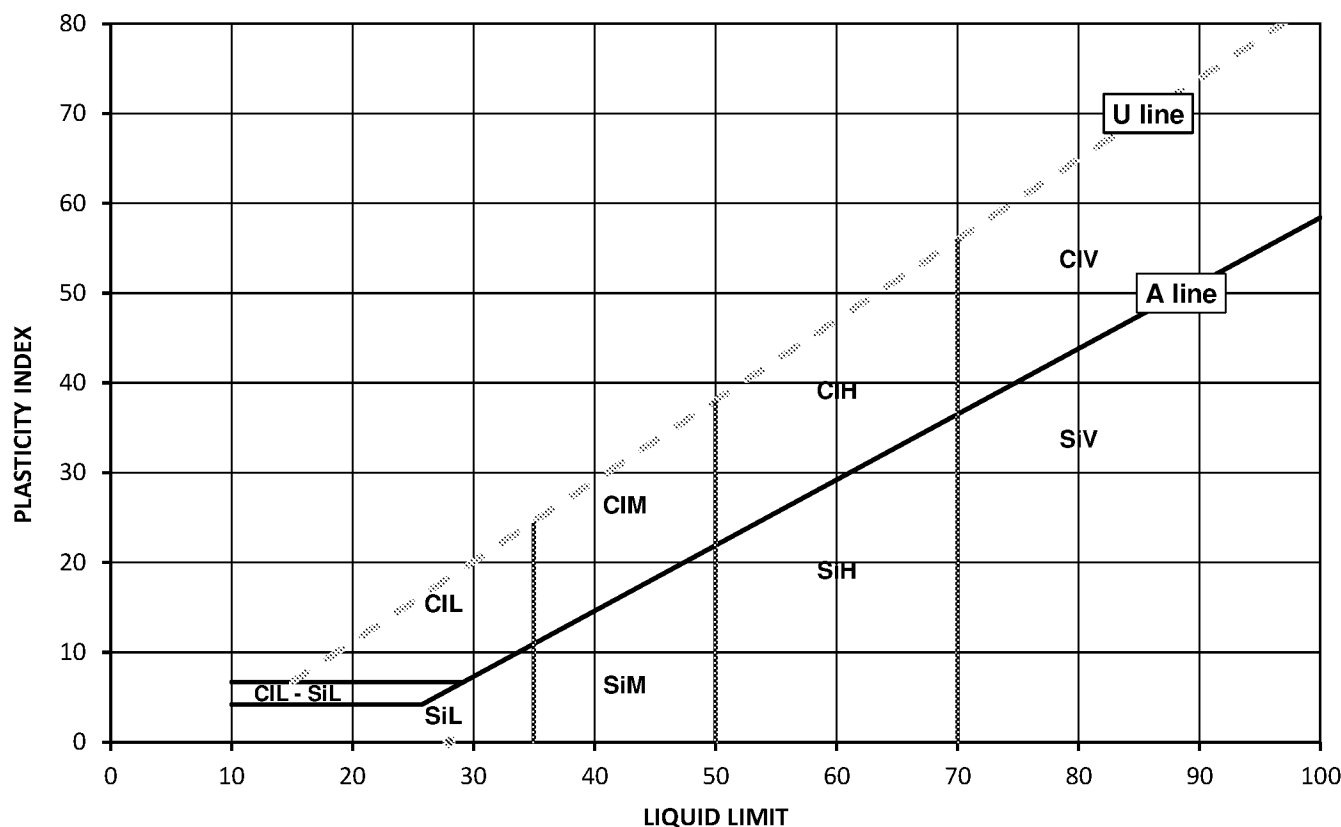
### Test Results:

Laboratory Reference: 1855128  
Hole No.: CP03 D17  
Sample Reference: Not Given  
Soil Description: White CHALK

Depth Top [m]: 22.50  
Depth Base [m]: 22.83  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 28                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | L Low below 35                                            |
| Si | Silt       | M Medium 35 to 50                                         |
|    |            | H High 50 to 70                                           |
|    |            | V Very high exceeding 70                                  |
|    | O Organic  | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 1: Site name amended

Signed:

Grzegorz Bielawicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 236.10



4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-72023

Date Sampled: 13/04 - 16/04/2021

Date Received: 22/04/2021

Date Tested: 10/05 - 18/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description                        | Remarks           | Moisture Content [ W ] | Water Content [ W ] | Atterberg       |    |    |    | Density |       |       | Total Porosity# |  |  |
|----------------------|----------|-----------|-----------|------------|------|------------------------------------|-------------------|------------------------|---------------------|-----------------|----|----|----|---------|-------|-------|-----------------|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                                    |                   |                        |                     | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                 |  |  |
|                      |          |           | m         | m          |      |                                    |                   | %                      | %                   | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 | %               |  |  |
| 1855120              | CP01 D10 | Not Given | 12.50     | Not Given  | B    | White CHALK                        | Atterberg 4 Point | 38                     |                     | 100             | 31 | NP | NP |         |       |       |                 |  |  |
| 1855121              | CP01 D11 | Not Given | 14.00     | 15.00      | B    | White clayey CHALK                 | Atterberg 4 Point | 34                     |                     | 100             | 35 | 22 | 13 |         |       |       |                 |  |  |
| 1855116              | CP01 D2  | Not Given | 1.20      | 1.65       | U    | Brown slightly sandy CLAY          | Atterberg 4 Point | 32                     |                     | 100             | 45 | 22 | 23 |         |       |       |                 |  |  |
| 1855117              | CP01 D3  | Not Given | 3.00      | Not Given  | D    | Grey slightly clayey SAND          | Atterberg 4 Point | 23                     |                     | 100             | 30 | NP | NP |         |       |       |                 |  |  |
| 1855118              | CP01 D5  | Not Given | 5.00      | 5.45       | D    | Light brown very sandy CLAY        | Atterberg 4 Point | 20                     |                     | 100             | 25 | 14 | 11 |         |       |       |                 |  |  |
| 1855126              | CP03 D12 | Not Given | 15.00     | 15.45      | D    | Cream colour slightly clayey CHALK | Atterberg 4 Point | 23                     |                     | 100             | 31 | 21 | 10 |         |       |       |                 |  |  |
| 1855128              | CP03 D17 | Not Given | 22.50     | 22.83      | D    | White CHALK                        | Atterberg 4 Point | 19                     |                     | 100             | 28 | NP | NP |         |       |       |                 |  |  |
| 1855124              | CP03 D7  | Not Given | 7.50      | 7.95       | D    | Cream colour slightly clayey CHALK | Atterberg 4 Point | 28                     |                     | 100             | 28 | 17 | 11 |         |       |       |                 |  |  |
|                      |          |           |           |            |      |                                    |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |          |           |           |            |      |                                    |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 1: Site name amended

Signed:

Szczezan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page

Date Reported: 28/07/2021

GF 238.12



# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

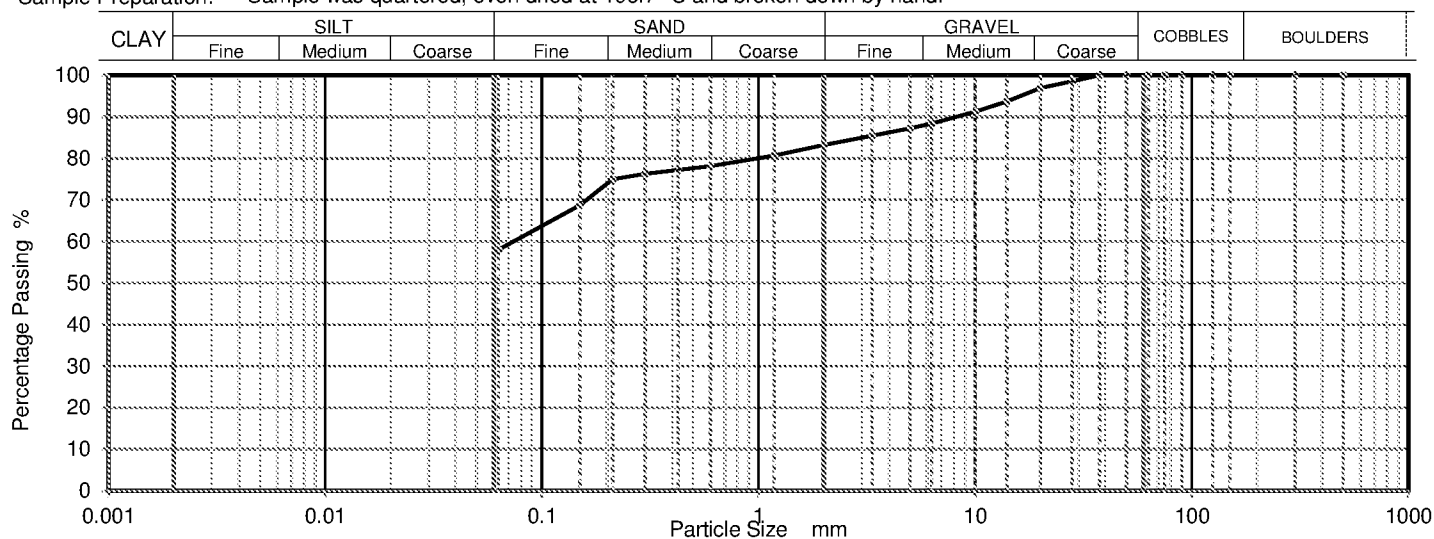
Client Reference: 20-1543.07  
Job Number: 21-72023  
Date Sampled: 13/04/2021  
Date Received: 22/04/2021  
Date Tested: 18/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1855115  
Hole No.: SA01(B5)  
Sample Reference: Not Given  
Sample Description: Cream colour gravelly very sandy CLAY with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 106.7 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 100       |                  |           |
| 90               | 100       |                  |           |
| 75               | 100       |                  |           |
| 63               | 100       |                  |           |
| 50               | 100       |                  |           |
| 37.5             | 100       |                  |           |
| 28               | 99        |                  |           |
| 20               | 97        |                  |           |
| 14               | 94        |                  |           |
| 10               | 91        |                  |           |
| 6.3              | 88        |                  |           |
| 5                | 87        |                  |           |
| 3.35             | 85        |                  |           |
| 2                | 83        |                  |           |
| 1.18             | 81        |                  |           |
| 0.6              | 78        |                  |           |
| 0.425            | 77        |                  |           |
| 0.3              | 76        |                  |           |
| 0.212            | 75        |                  |           |
| 0.15             | 69        |                  |           |
| 0.063            | 59        |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 17         |
| Sand               | 25         |
| Fines <0.063mm     | 59         |

| Grading Analysis       |       |
|------------------------|-------|
| D100                   | mm    |
| D60                    | mm    |
| D30                    | mm    |
| D10                    | mm    |
| Uniformity Coefficient | > 1.1 |
| Curvature Coefficient  |       |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Site name amended

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Saturation Moisture Content Test Results

Tested in Accordance with: BS 1377-2: 1990: Clause 3.3

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-72023

Date Sampled: 13/04 - 16/04/2021

Date Received: 22/04/2021

Date Tested: 19/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description | Remarks                                                                 | SMC | Bulk density      | Dry density       | MC |  |  |  |  |  |  |  |  |
|----------------------|----------|-----------|-----------|------------|------|-------------|-------------------------------------------------------------------------|-----|-------------------|-------------------|----|--|--|--|--|--|--|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           | m         | m          |      |             |                                                                         | %   | Mg/m <sup>3</sup> | Mg/m <sup>3</sup> | %  |  |  |  |  |  |  |  |  |
| 1855122              | CP01 D12 | Not Given | 15.50     | 15.84      | B    | White CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 27  | 2.04              | 1.57              | 30 |  |  |  |  |  |  |  |  |
| 1855119              | CP01 D8  | Not Given | 9.50      | Not Given  | D    | White CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 23  | 2.05              | 1.67              | 23 |  |  |  |  |  |  |  |  |
| 1855128              | CP03 D17 | Not Given | 22.50     | 22.83      | D    | White CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 20  | 2.09              | 1.76              | 19 |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |             |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |

Note: SMC - Saturation Moisture Content; MC - Moisture Content

Comments: \*BS1377:2 Clause 3.3.5.1  
Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 21/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

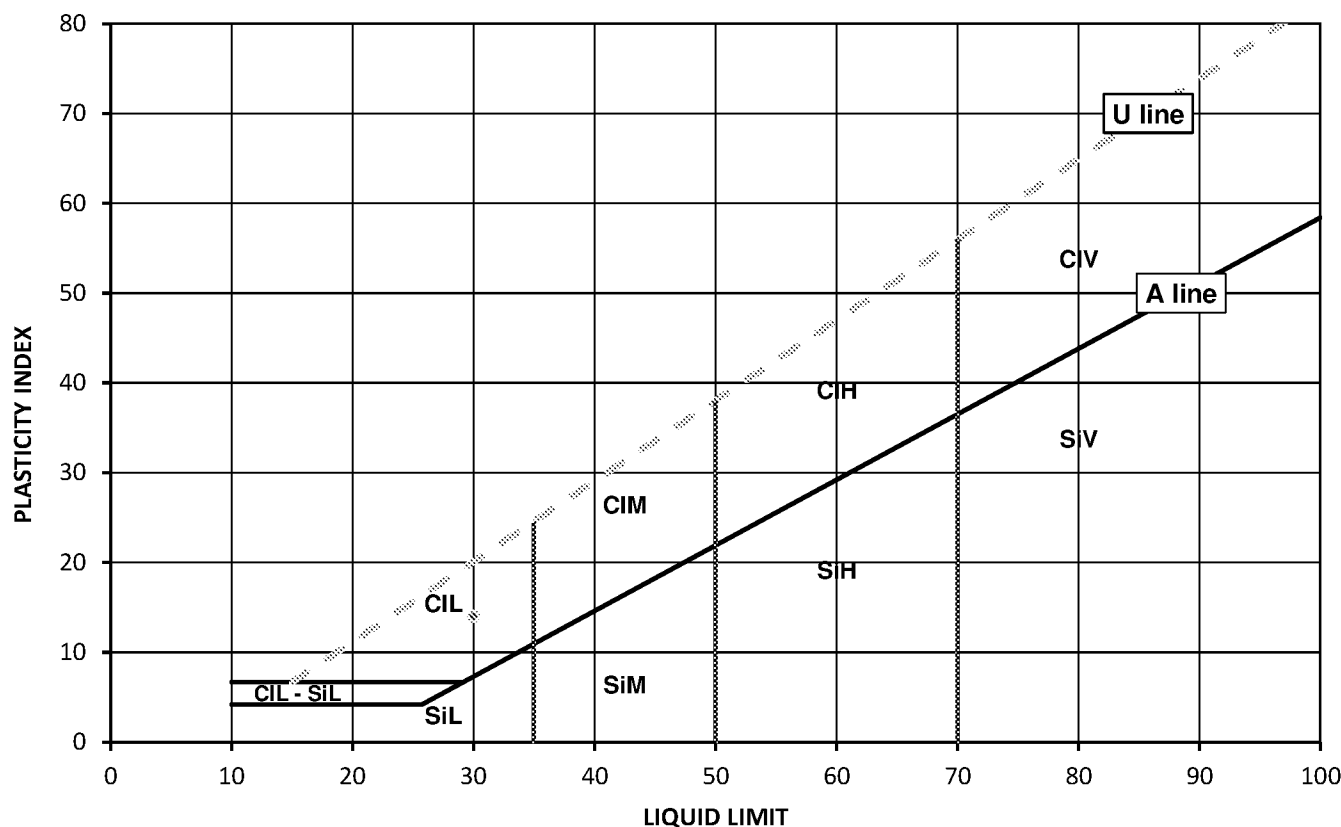
### Test Results:

Laboratory Reference: 1860565  
Hole No.: CP04 D3  
Sample Reference: Not Given  
Soil Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: U

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 26                                   | 30                    | 16                     | 14                        | 91                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity      | Liquid Limit                                              |
|----|-----------------|-----------------------------------------------------------|
| Cl | Clay            | L Low below 35                                            |
| Si | Silt            | M Medium 35 to 50                                         |
|    | H High 50 to 70 | V Very high exceeding 70                                  |
|    | O Organic       | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 22/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

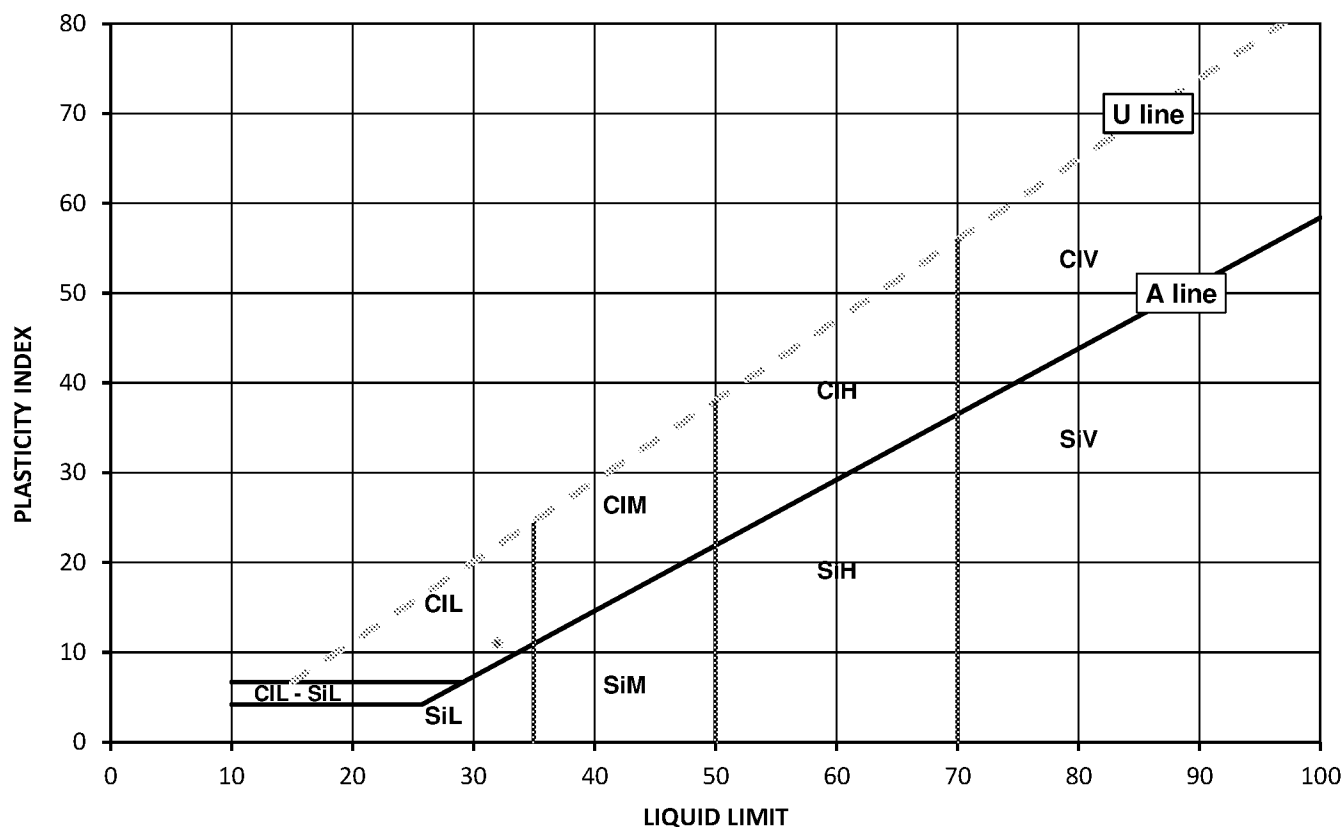
### Test Results:

Laboratory Reference: 1860567  
Hole No.: CP04 B6  
Sample Reference: Not Given  
Soil Description: White clayey CHALK

Depth Top [m]: 6.50  
Depth Base [m]: Not Given  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 50                                   | 32                    | 21                     | 11                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

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# TEST CERTIFICATE

## Liquid and Plastic Limits

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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 22/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

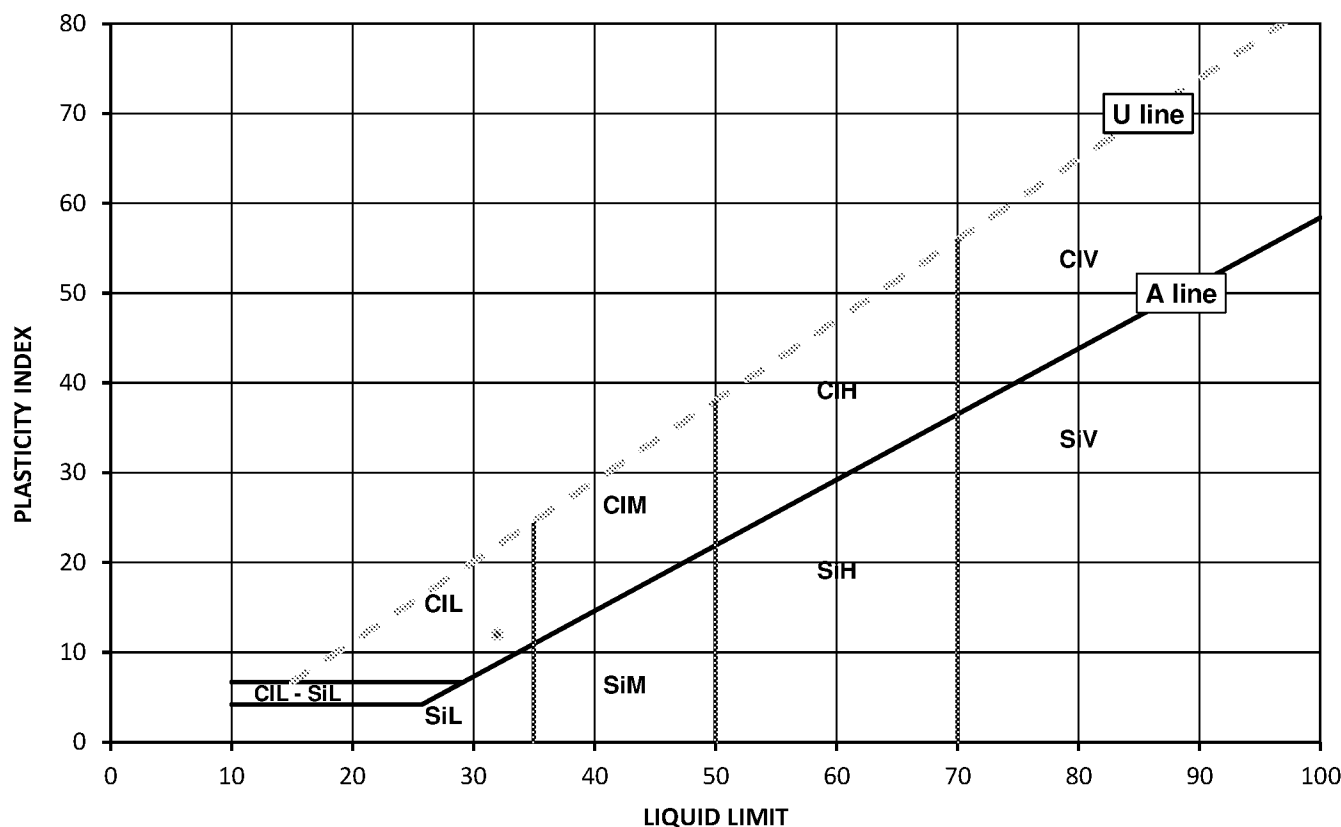
### Test Results:

Laboratory Reference: 1860569  
Hole No.: CP04 D12  
Sample Reference: Not Given  
Soil Description: Light grey CHALK

Depth Top [m]: 15.50  
Depth Base [m]: 15.95  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 32                    | 20                     | 12                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity      | Liquid Limit                                              |
|----|-----------------|-----------------------------------------------------------|
| Cl | Clay            | L Low below 35                                            |
| Si | Silt            | M Medium 35 to 50                                         |
|    | H High 50 to 70 | V Very high exceeding 70                                  |
|    | O Organic       | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

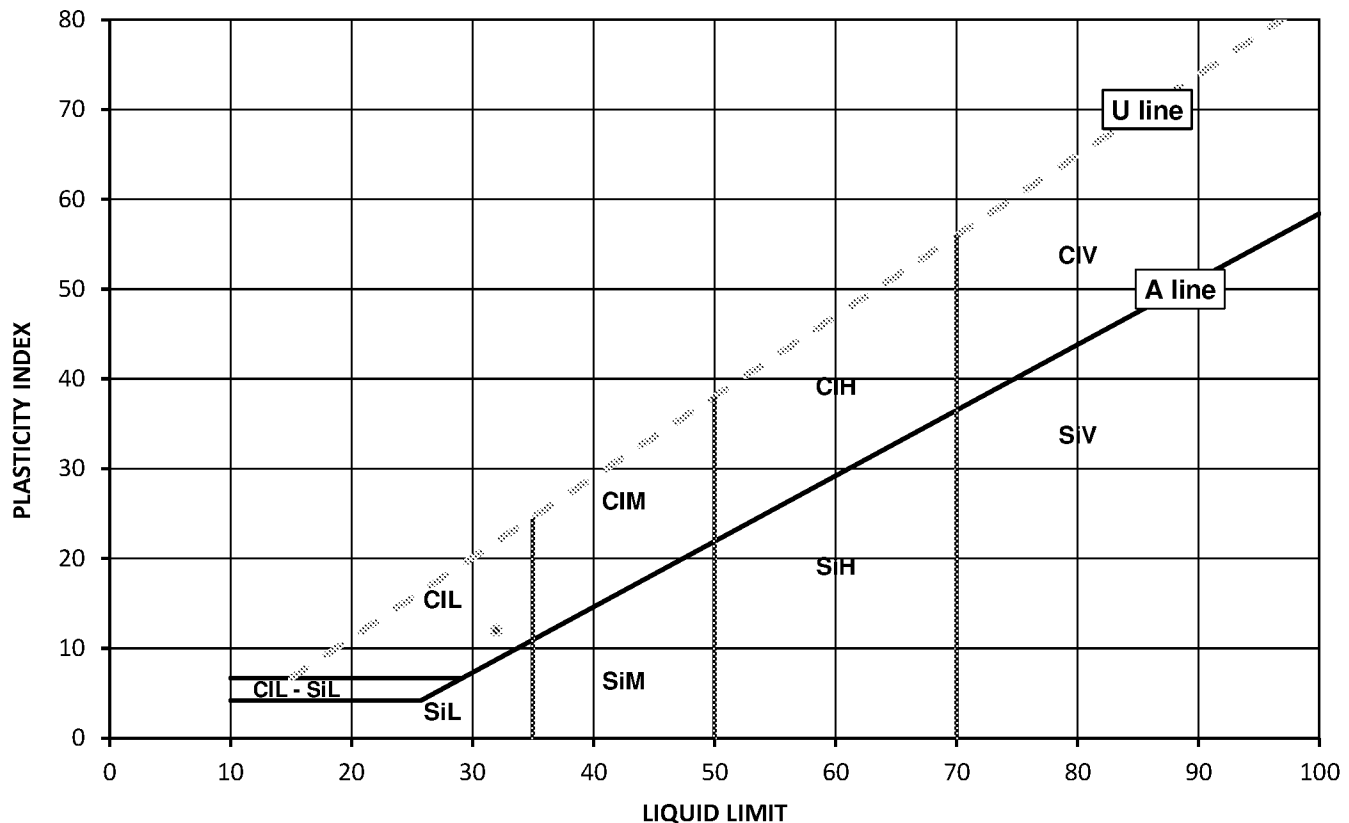
### Test Results:

Laboratory Reference: 1860570  
Hole No.: CP04 D14  
Sample Reference: Not Given  
Soil Description: Light grey CHALK

Depth Top [m]: 18.00  
Depth Base [m]: 18.85  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 32                    | 20                     | 12                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

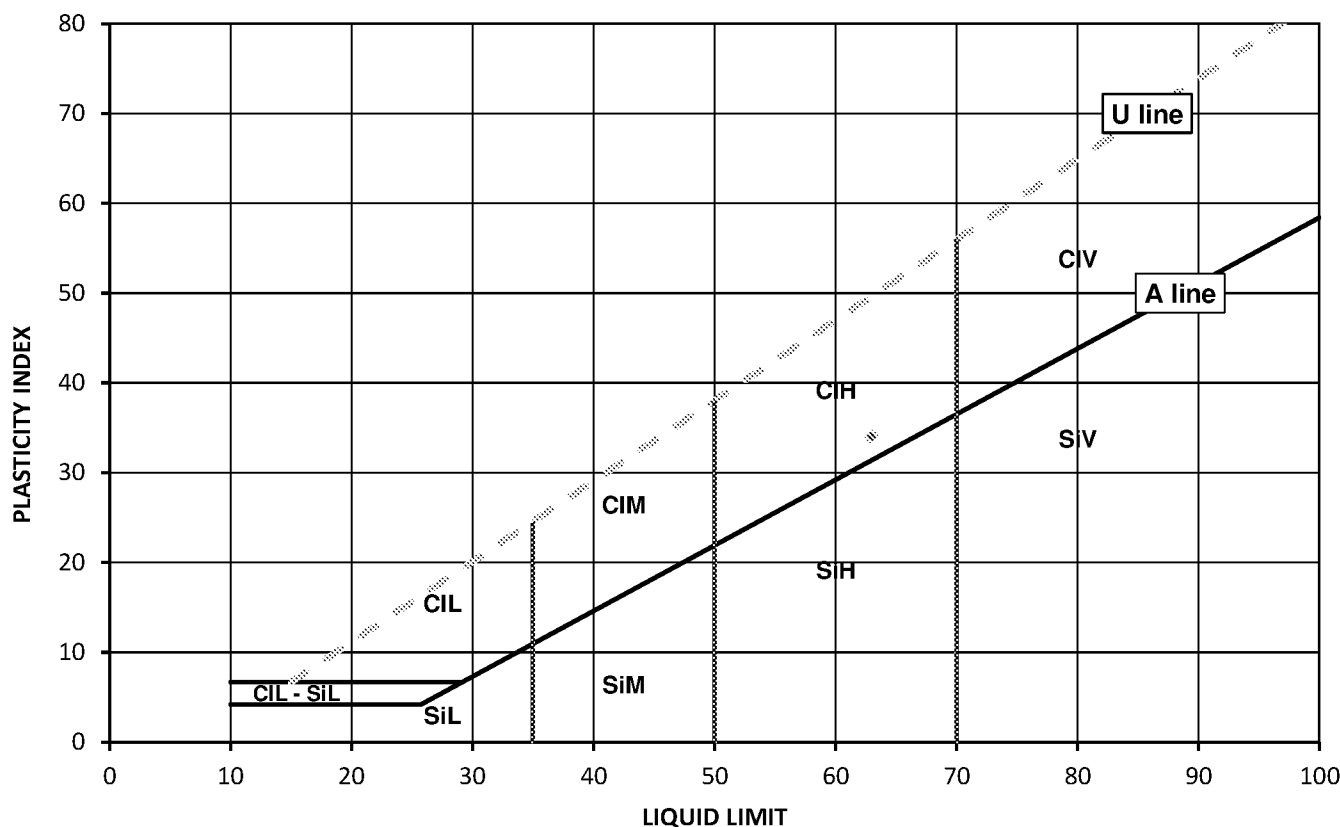
### Test Results:

Laboratory Reference: 1860573  
Hole No.: CP05 D2  
Sample Reference: Not Given  
Soil Description: Brown to grey slightly gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: U

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 51                                   | 63                    | 29                     | 34                        | 99                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

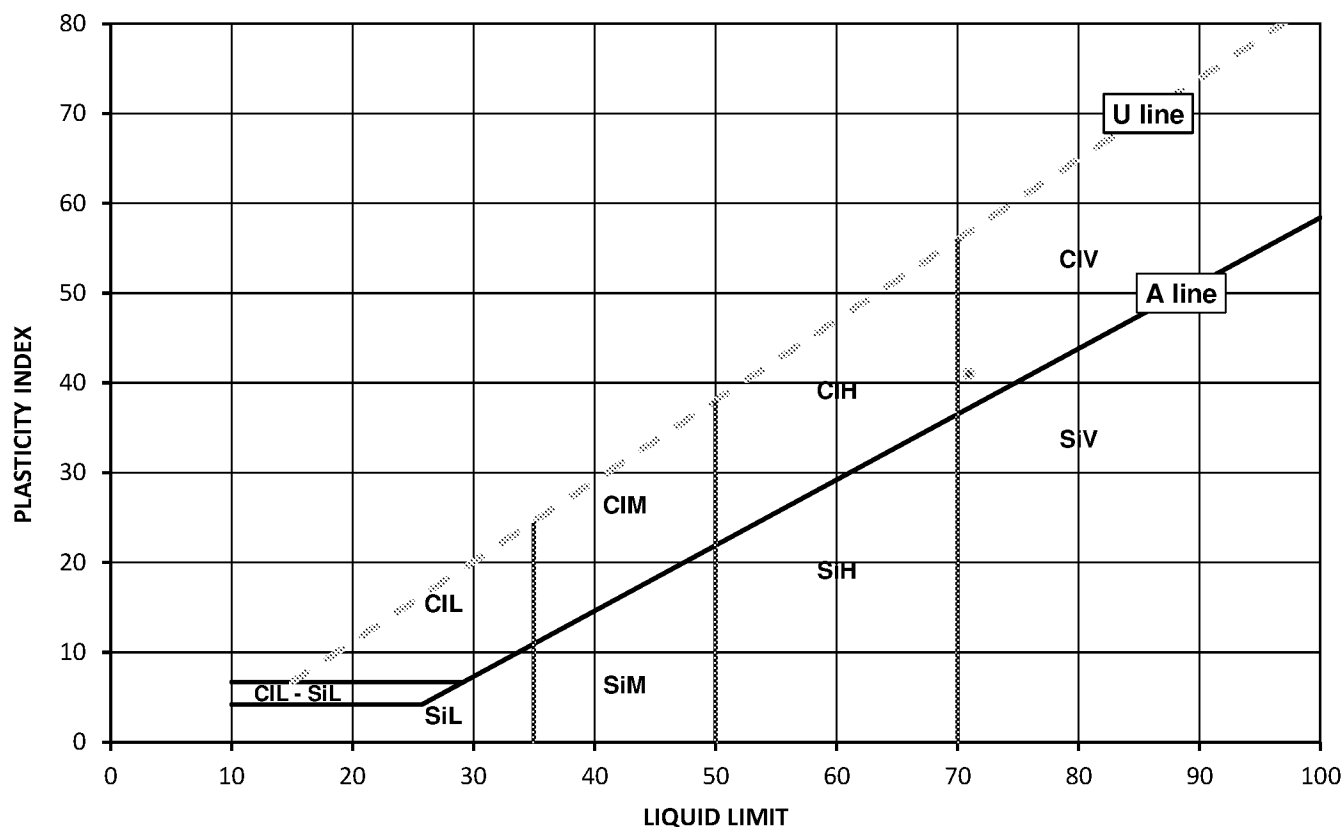
### Test Results:

Laboratory Reference: 1860574  
Hole No.: CP05 B4  
Sample Reference: Not Given  
Soil Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 48                                   | 71                    | 30                     | 41                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

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PL Deputy Head of Geotechnical Section  
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Date Reported: 28/07/2021

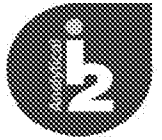
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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

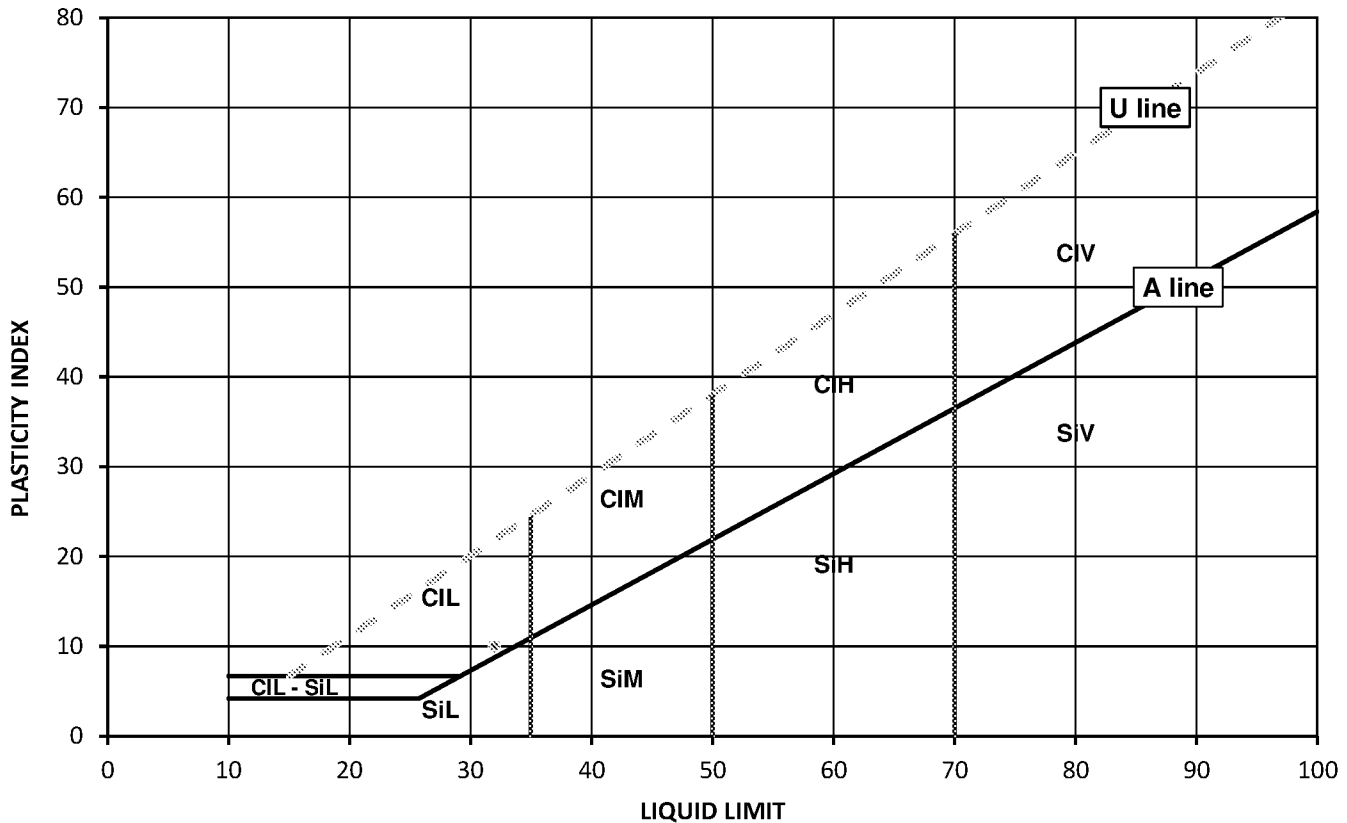
### Test Results:

Laboratory Reference: 1860575  
Hole No.: CP05 D6  
Sample Reference: Not Given  
Soil Description: Cream colour slightly gravelly CHALK with fragments of flintstone

Depth Top [m]: 6.50  
Depth Base [m]: 6.95  
Sample Type: U

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 32                    | 22                     | 10                        | 86                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

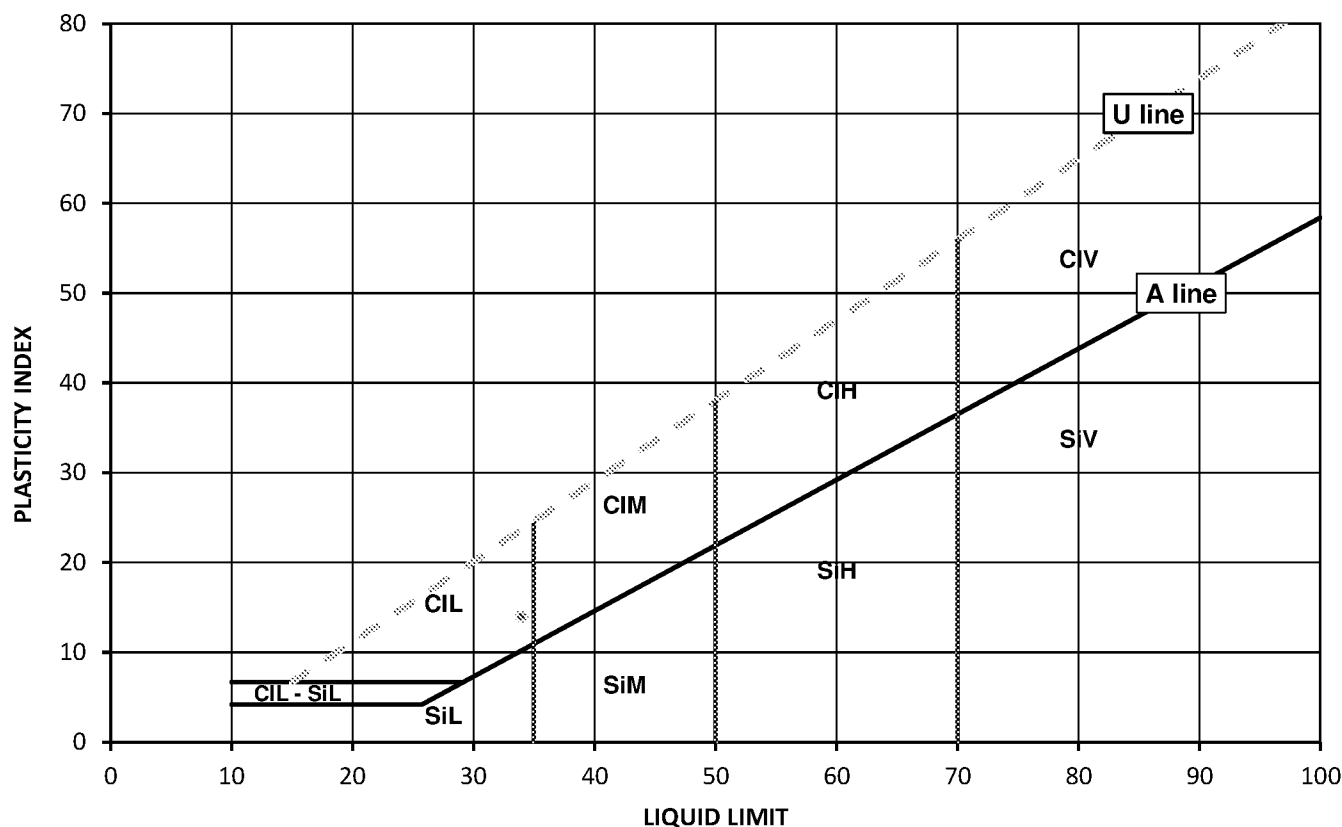
### Test Results:

Laboratory Reference: 1860577  
Hole No.: CP05 D9  
Sample Reference: Not Given  
Soil Description: Cream colour CHALK

Depth Top [m]: 11.00  
Depth Base [m]: 11.45  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 18                                   | 34                    | 20                     | 14                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

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Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
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Date Tested: 10/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

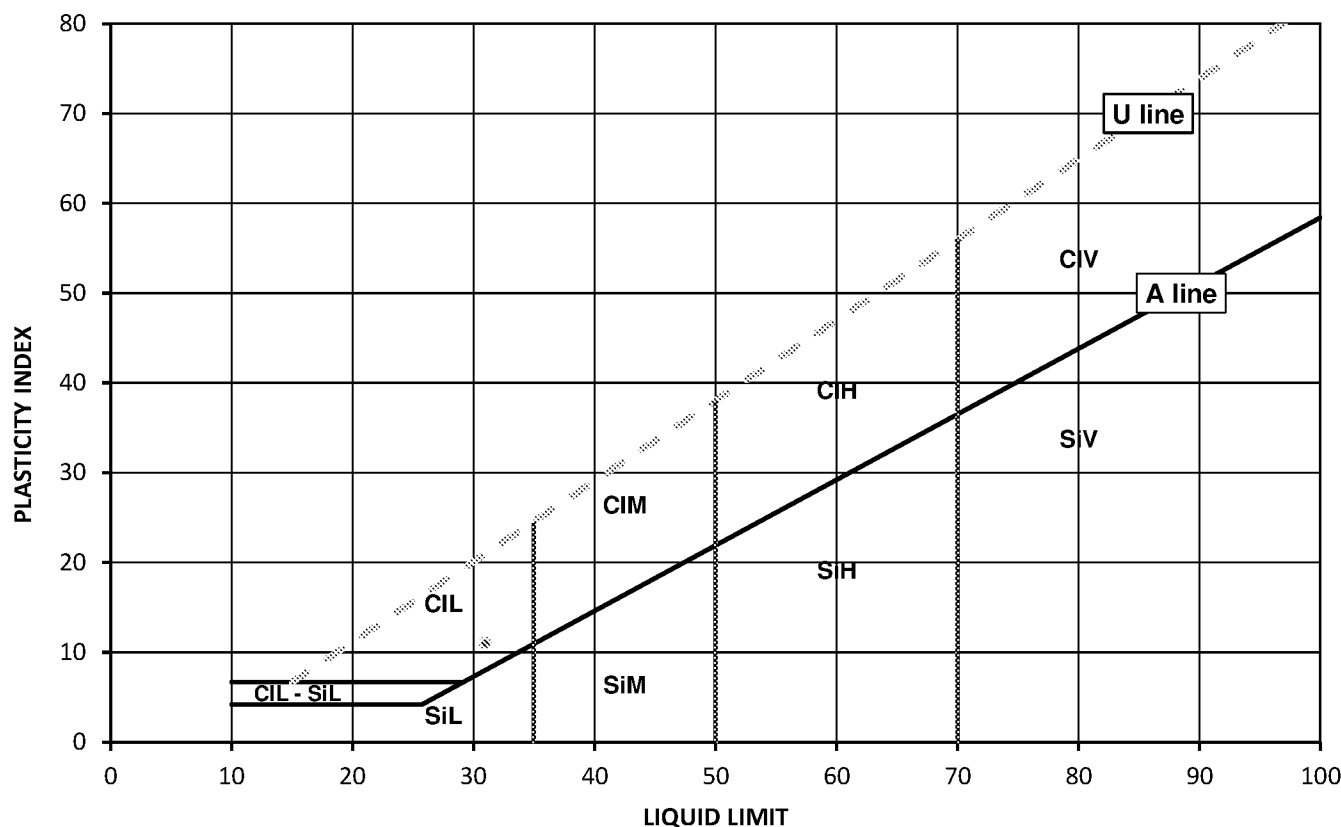
### Test Results:

Laboratory Reference: 1860578  
Hole No.: CP05 D11  
Sample Reference: Not Given  
Soil Description: Cream colour clayey CHALK

Depth Top [m]: 14.00  
Depth Base [m]: 14.45  
Sample Type: U

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                   | 31                    | 20                     | 11                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site Address amended.

Signed:

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4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20 1543 07

Job Number: 21-73033

Date Sampled: 21/04 - 23/04/2021

Date Received: 22/04/2021

Date Tested: 10/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description                                                       | Remarks           | Moisture Content [ W ] | Water Content [ W ] | Atterberg       |    |    |    | Density |       |       | Total Porosity# |  |  |
|----------------------|----------|-----------|-----------|------------|------|-------------------------------------------------------------------|-------------------|------------------------|---------------------|-----------------|----|----|----|---------|-------|-------|-----------------|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                                                                   |                   |                        |                     | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                 |  |  |
|                      |          |           | m         | m          |      |                                                                   |                   | %                      | %                   | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 | %               |  |  |
| 1860567              | CP04 B6  | Not Given | 6.50      | Not Given  | U    | White clayey CHALK                                                | Atterberg 4 Point | 50                     |                     | 100             | 32 | 21 | 11 |         |       |       |                 |  |  |
| 1860569              | CP04 D12 | Not Given | 15.50     | 15.95      | U    | Light grey CHALK                                                  | Atterberg 4 Point | 19                     |                     | 100             | 32 | 20 | 12 |         |       |       |                 |  |  |
| 1860570              | CP04 D14 | Not Given | 18.00     | 18.85      | U    | Light grey CHALK                                                  | Atterberg 4 Point | 23                     |                     | 100             | 32 | 20 | 12 |         |       |       |                 |  |  |
| 1860564              | CP04 D2  | Not Given | 2.00      | 2.45       | U    | Brown sandy CLAY                                                  |                   | 16                     |                     |                 |    |    |    |         |       |       |                 |  |  |
| 1860565              | CP04 D3  | Not Given | 3.00      | 3.45       | U    | Brownish grey slightly gravelly very sandy CLAY                   | Atterberg 4 Point | 26                     |                     | 91              | 30 | 16 | 14 |         |       |       |                 |  |  |
| 1860574              | CP05 B4  | Not Given | 3.00      | Not Given  | U    | Brownish grey slightly sandy CLAY                                 | Atterberg 4 Point | 48                     |                     | 100             | 71 | 30 | 41 |         |       |       |                 |  |  |
| 1860578              | CP05 D11 | Not Given | 14.00     | 14.45      | U    | Cream colour clayey CHALK                                         | Atterberg 4 Point | 22                     |                     | 100             | 31 | 20 | 11 |         |       |       |                 |  |  |
| 1860573              | CP05 D2  | Not Given | 2.00      | 2.45       | U    | Brown to grey slightly gravelly CLAY                              | Atterberg 4 Point | 51                     |                     | 99              | 63 | 29 | 34 |         |       |       |                 |  |  |
| 1860575              | CP05 D6  | Not Given | 6.50      | 6.95       | U    | Cream colour slightly gravelly CHALK with fragments of flintstone | Atterberg 4 Point | 23                     |                     | 86              | 32 | 22 | 10 |         |       |       |                 |  |  |
| 1860577              | CP05 D9  | Not Given | 11.00     | 11.45      | U    | Cream colour CHALK                                                | Atterberg 4 Point | 18                     |                     | 100             | 34 | 20 | 14 |         |       |       |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

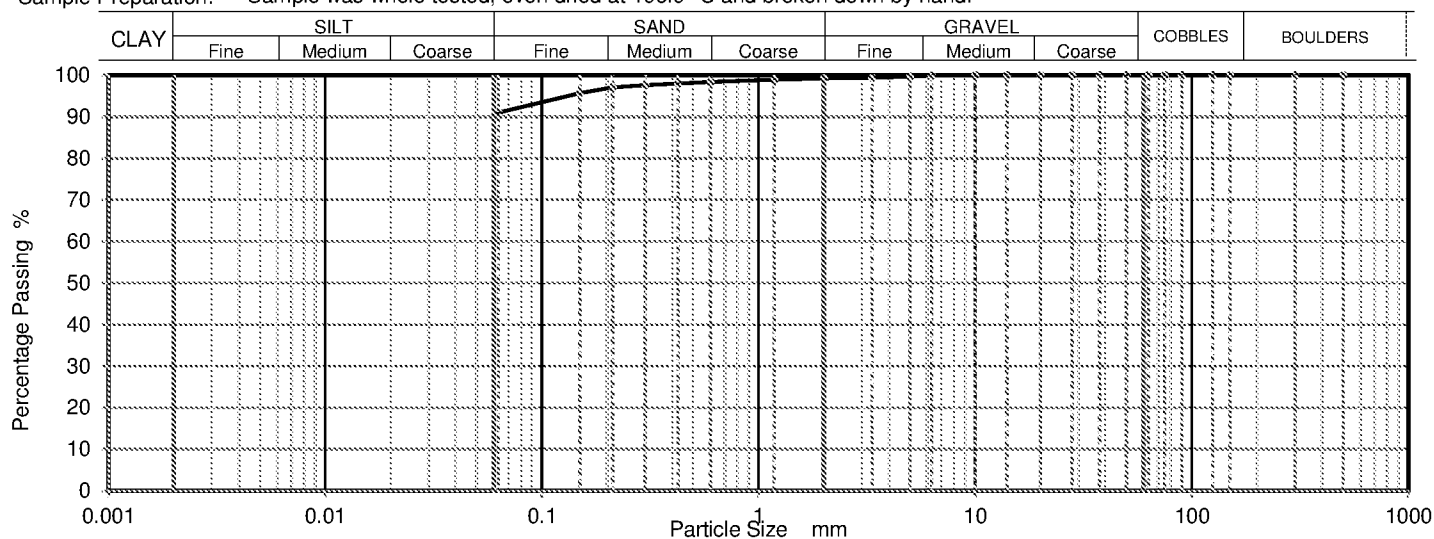
Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 21/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1860563  
Hole No.: CP04 B2  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY  
Sample Preparation: Sample was whole tested, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: U



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 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            | 98        |                  |           |
| 0.3              | 98        |                  |           |
| 0.212            | 97        |                  |           |
| 0.15             | 96        |                  |           |
| 0.063            | 91        |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 1          |
| Sand               | 8          |
| Fines <0.063mm     | 91         |

| Grading Analysis       |     |
|------------------------|-----|
| D100                   | mm  |
| D60                    | mm  |
| D30                    | mm  |
| D10                    | mm  |
| Uniformity Coefficient | N/A |
| Curvature Coefficient  |     |

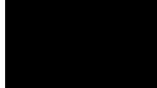
Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Site Address amended.

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Signed:



Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

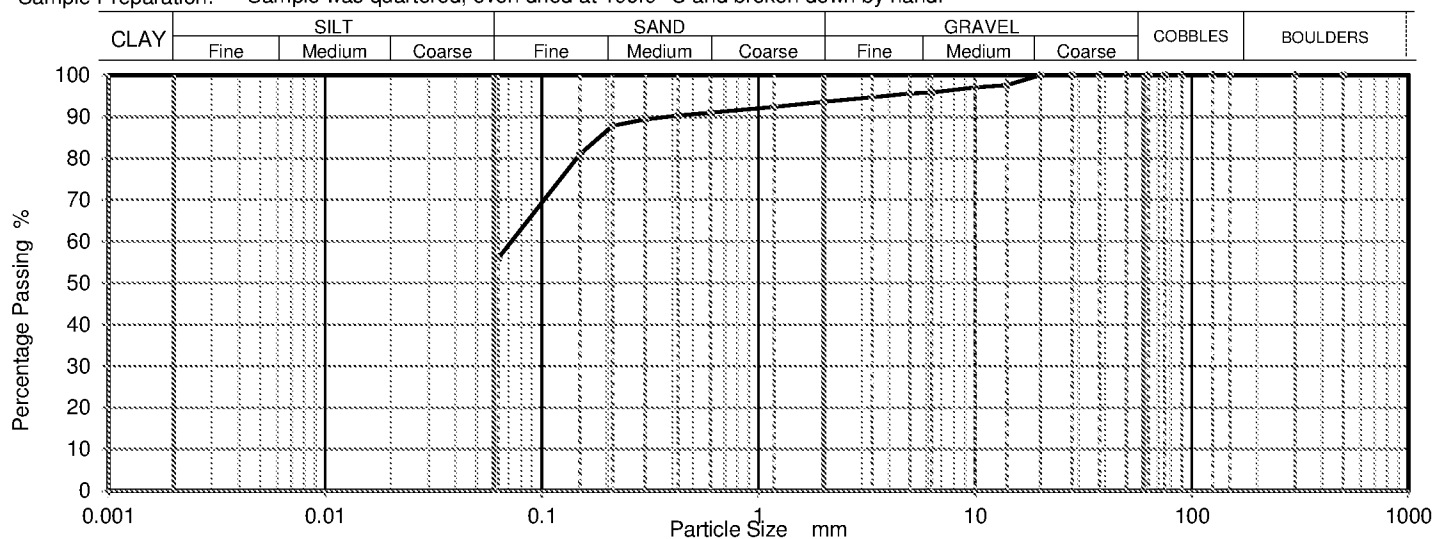
Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 21/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1860565  
Hole No.: CP04 D3  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly very sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: U



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 100       |                  |           |
| 90               | 100       |                  |           |
| 75               | 100       |                  |           |
| 63               | 100       |                  |           |
| 50               | 100       |                  |           |
| 37.5             | 100       |                  |           |
| 28               | 100       |                  |           |
| 20               | 100       |                  |           |
| 14               | 98        |                  |           |
| 10               | 97        |                  |           |
| 6.3              | 96        |                  |           |
| 5                | 96        |                  |           |
| 3.35             | 95        |                  |           |
| 2                | 94        |                  |           |
| 1.18             | 92        |                  |           |
| 0.6              | 91        |                  |           |
| 0.425            | 90        |                  |           |
| 0.3              | 89        |                  |           |
| 0.212            | 88        |                  |           |
| 0.15             | 81        |                  |           |
| 0.063            | 56        |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 6          |
| Sand               | 37         |
| Fines <0.063mm     | 56         |

| Grading Analysis       |       |
|------------------------|-------|
| D100                   | mm    |
| D60                    | mm    |
| D30                    | mm    |
| D10                    | mm    |
| Uniformity Coefficient | > 1.1 |
| Curvature Coefficient  |       |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

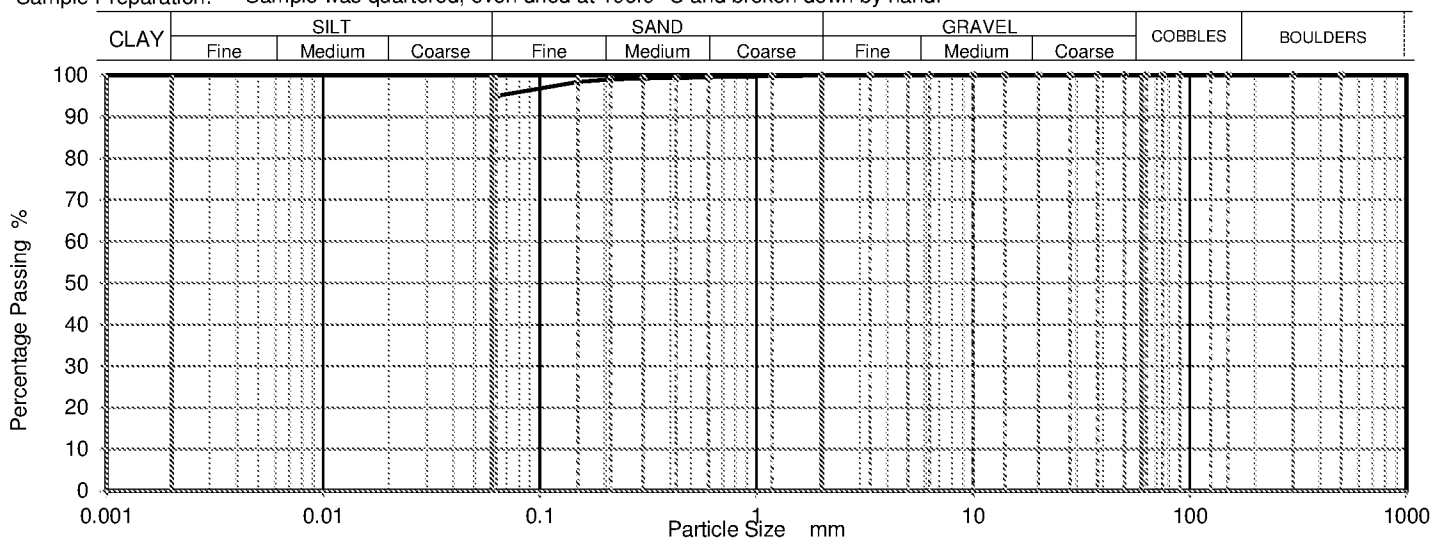
Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1860572  
Hole No.: CP05 B2  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: U



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 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            | 95        |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 0          |
| Sand               | 5          |
| Fines <0.063mm     | 95         |

| Grading Analysis       |     |
|------------------------|-----|
| D100                   | mm  |
| D60                    | mm  |
| D30                    | mm  |
| D10                    | mm  |
| Uniformity Coefficient | N/A |
| Curvature Coefficient  |     |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20 1543 07  
Job Number: 21-73033  
Date Sampled: 23/04/2021  
Date Received: 22/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

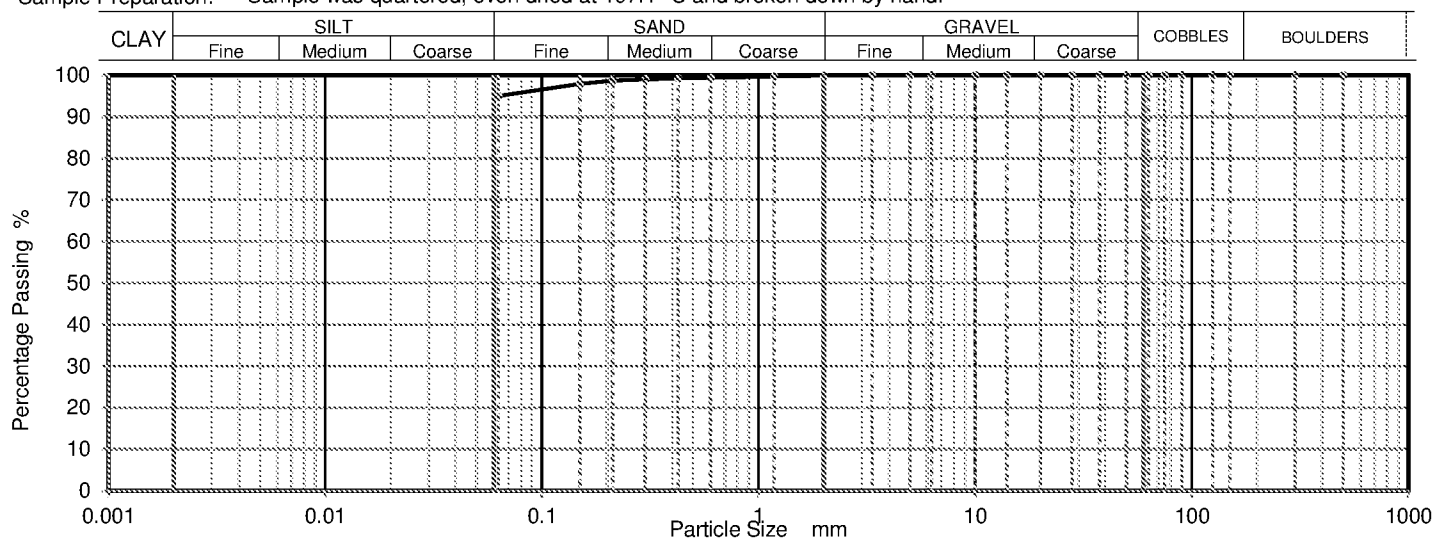
Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1860574  
Hole No.: CP05 B4  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy CLAY  
Sample Preparation: Sample was quartered, oven dried at 107.1 °C and broken down by hand.

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: U



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 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            | 99        |                  |           |
| 0.3              | 99        |                  |           |
| 0.212            | 99        |                  |           |
| 0.15             | 98        |                  |           |
| 0.063            | 95        |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 0          |
| Sand               | 5          |
| Fines <0.063mm     | 95         |

| Grading Analysis       |     |
|------------------------|-----|
| D100                   | mm  |
| D60                    | mm  |
| D30                    | mm  |
| D10                    | mm  |
| Uniformity Coefficient | N/A |
| Curvature Coefficient  |     |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Saturation Moisture Content Test Results

Tested in Accordance with: BS 1377-2: 1990: Clause 3.3

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20 1543 07

Job Number: 21-73033

Date Sampled: 21/04 - 23/04/2021

Date Received: 22/04/2021

Date Tested: 10/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description        | Remarks                                                                 | SMC | Bulk density      | Dry density       | MC |  |  |  |  |  |  |  |  |
|----------------------|----------|-----------|-----------|------------|------|--------------------|-------------------------------------------------------------------------|-----|-------------------|-------------------|----|--|--|--|--|--|--|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           | m         | m          |      |                    |                                                                         | %   | Mg/m <sup>3</sup> | Mg/m <sup>3</sup> | %  |  |  |  |  |  |  |  |  |
| 1860566              | CP04 D4  | Not Given | 4.00      | 4.45       | U    | Light brown CHALK  | Supplied lump of chalk fails to comply with volume requirements as per* | 26  | 1.99              | 1.59              | 26 |  |  |  |  |  |  |  |  |
| 1860568              | CP04 D8  | Not Given | 9.50      | 9.95       | U    | Cream colour CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 24  | 1.93              | 1.65              | 17 |  |  |  |  |  |  |  |  |
| 1860579              | CP05 D12 | Not Given | 15.50     | 15.95      | U    | Cream colour CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 25  | 1.98              | 1.62              | 22 |  |  |  |  |  |  |  |  |
| 1860576              | CP05 D8  | Not Given | 9.50      | 9.95       | U    | Cream colour CHALK | Supplied lump of chalk fails to comply with volume requirements as per* | 23  | 2.00              | 1.67              | 20 |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |
|                      |          |           |           |            |      |                    |                                                                         |     |                   |                   |    |  |  |  |  |  |  |  |  |

Note: SMC - Saturation Moisture Content; MC - Moisture Content

Comments: \*BS1377:2 Clause 3.3.5.1  
Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

**TEST CERTIFICATE****Unconsolidated Undrained****Triaxial Compression**Tested in Accordance with:  
BS 1377-7: 1990: Clause 8i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 20 1543 07

Job Number: 21-73033

Date Sampled: 23/04/2021

Date Received: 22/04/2021

Date Tested: 10/05/2021

Sampled By: Client

**Test Results:**Laboratory Reference: 1860571  
Hole No.: CP05 U1  
Sample Reference: Not Given  
Sample Description: Brown CLAY

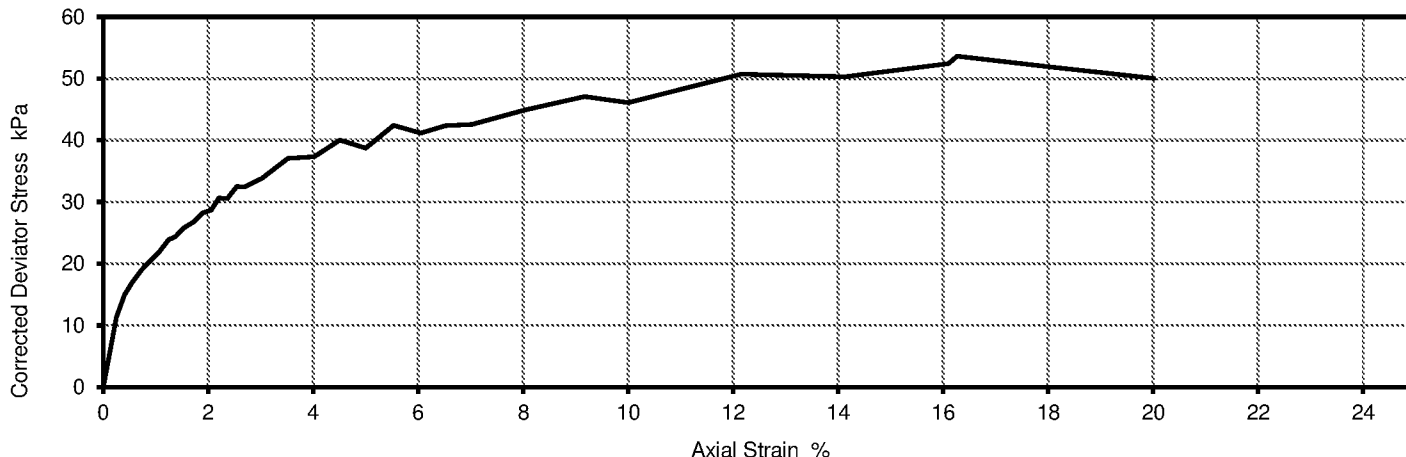
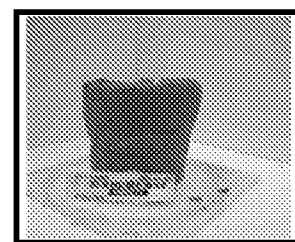
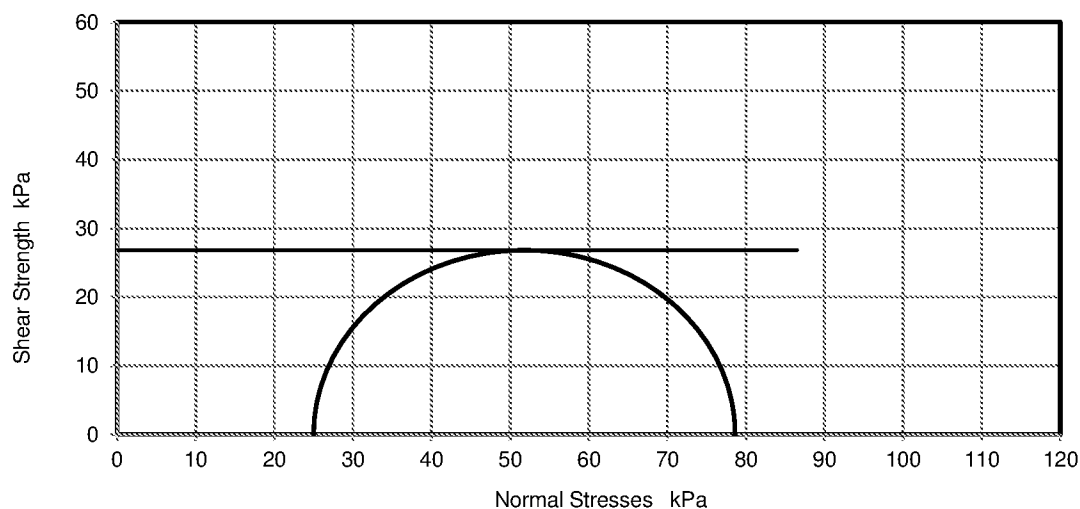
Depth Top [m]: 1.20

Depth Base [m]: 1.65

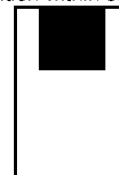
Sample Type: U

|                     |                        |
|---------------------|------------------------|
| Test Number         | 1                      |
| Length              | 96.38 mm               |
| Diameter            | 49.56 mm               |
| Bulk Density        | 1.81 Mg/m <sup>3</sup> |
| Moisture Content    | 40 %                   |
| Dry Density         | 1.30 Mg/m <sup>3</sup> |
| Membrane Correction | 1.50 kPa               |

|                                                         |                                             |
|---------------------------------------------------------|---------------------------------------------|
| Rate of Strain                                          | 2.00 %/min                                  |
| Cell Pressure                                           | 25 kPa                                      |
| Axial Strain at failure                                 | 16.3 %                                      |
| Deviator Stress, ( $\sigma_1 - \sigma_3$ ) <sub>f</sub> | 54 kPa                                      |
| Undrained Shear Strength, $c_u$                         | 27 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$ |
| Mode of Failure                                         | Compound                                    |
| Membrane thickness                                      | 0.23 mm                                     |

**Deviator Stress v Axial Strain****Mohr Circles**

Position within sample

Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.  
This is provided for information only.

Remarks: Re-issue 1: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: 26/04/2021  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

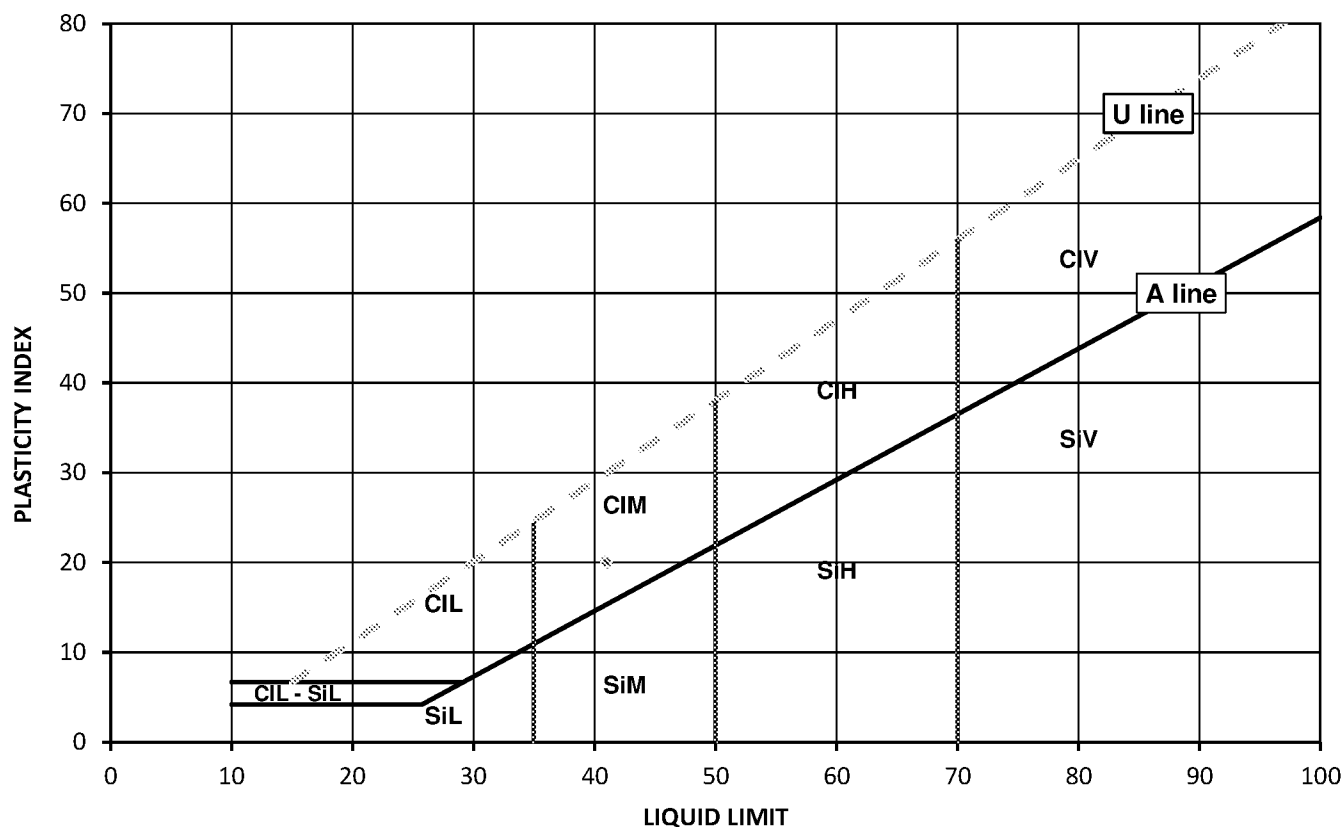
### Test Results:

Laboratory Reference: 1861474  
Hole No.: CP06  
Sample Reference: D2  
Soil Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 20                                   | 41                    | 21                     | 20                        | 98                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: 26/04/2021  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

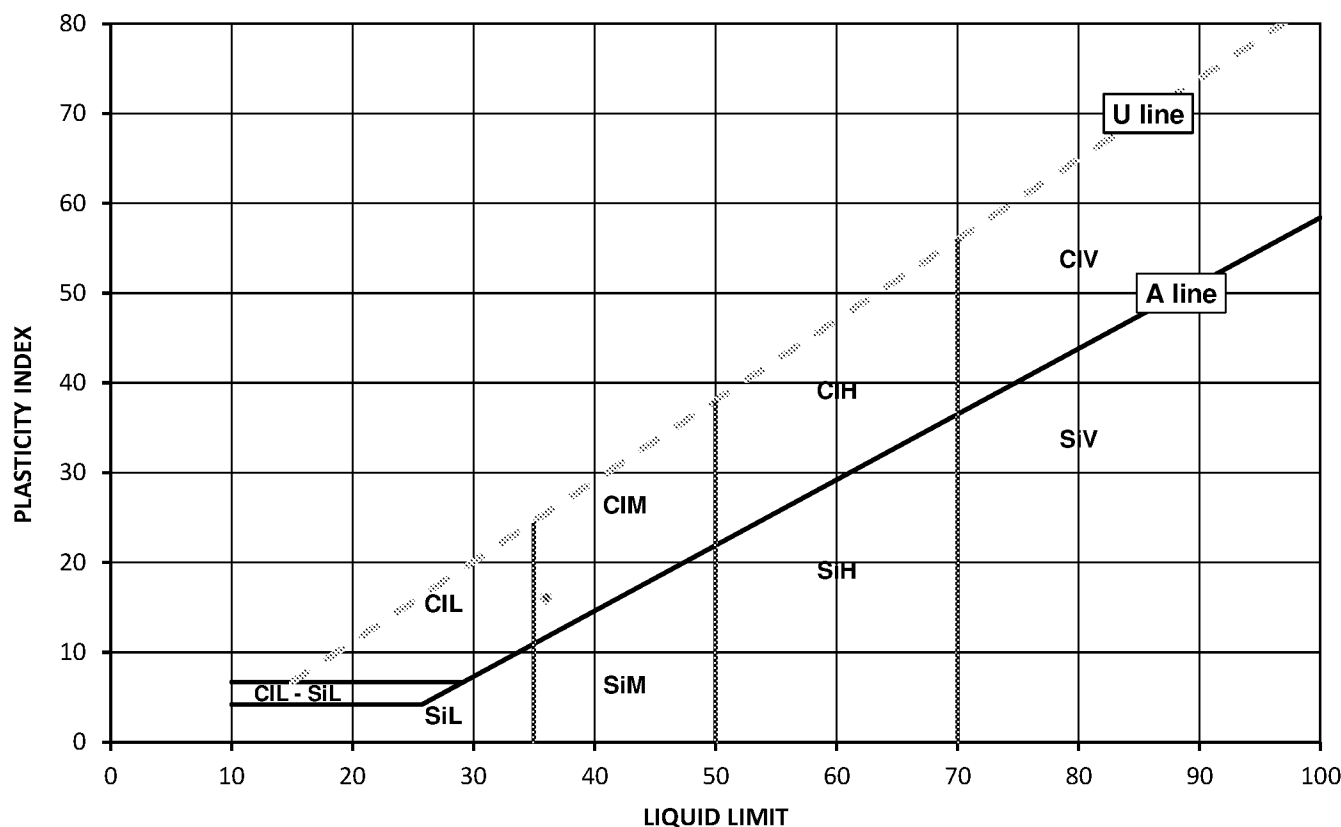
### Test Results:

Laboratory Reference: 1861475  
Hole No.: CP06  
Sample Reference: D3  
Soil Description: Brown sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: 3.45  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 28                                   | 36                    | 20                     | 16                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: 27/04/2021  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

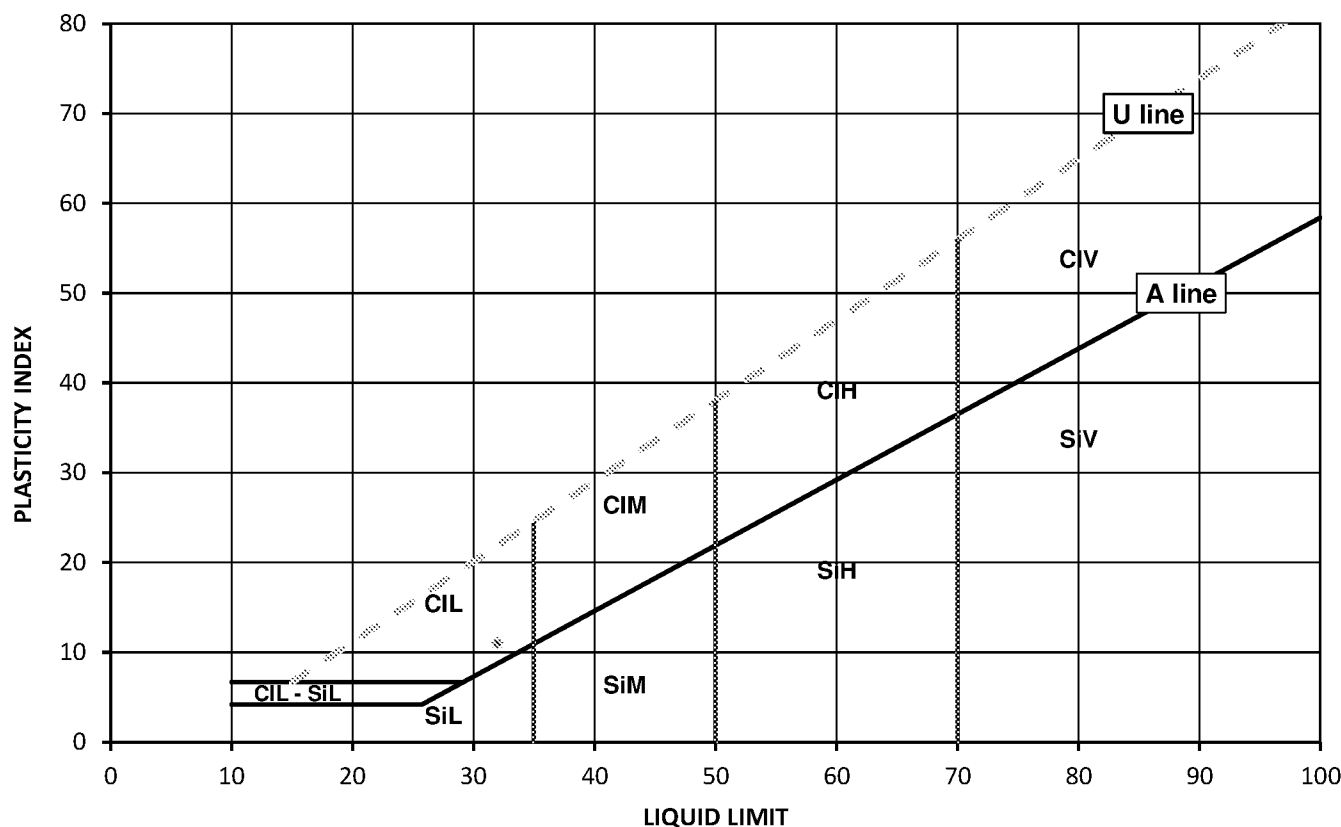
### Test Results:

Laboratory Reference: 1861477  
Hole No.: CP06  
Sample Reference: D5  
Soil Description: Cream colour slightly gravelly CHALK

Depth Top [m]: 6.50  
Depth Base [m]: 6.95  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 32                    | 21                     | 11                        | 89                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 20-1543.07

Job Number: 21-73232

Date Sampled: 27/04/2021

Date Received: 29/04/2021

Date Tested: 11/05/2021

Sampled By: Client

**Test Results:**

Laboratory Reference: 1861479

Hole No.: CP06

Sample Reference: D9

Soil Description: Cream colour CHALK

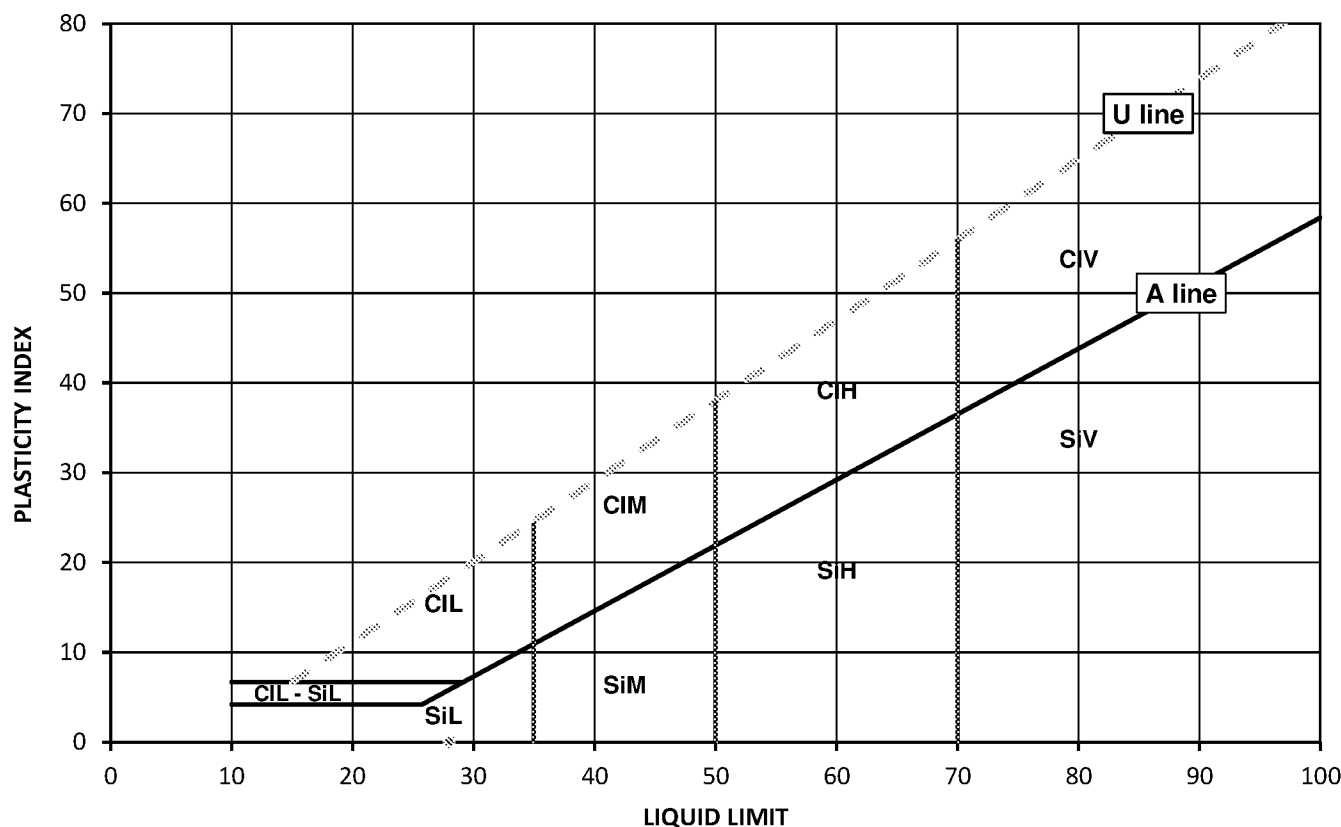
Depth Top [m]: 12.50

Depth Base [m]: 12.95

Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                   | 28                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    |      | Plasticity |           | Liquid Limit                                              |
|----|------|------------|-----------|-----------------------------------------------------------|
| Cl | Clay | L          | Low       | below 35                                                  |
| Si | Silt | M          | Medium    | 35 to 50                                                  |
|    |      | H          | High      | 50 to 70                                                  |
|    |      | V          | Very high | exceeding 70                                              |
|    |      | O          | Organic   | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

|          |                                                   |
|----------|---------------------------------------------------|
| Remarks: | NP - non plastic<br>Re-issue 1: Site name amended |
|----------|---------------------------------------------------|

**Signed:**

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
**for and on behalf of i2 Analytical Ltd**

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Page 1 of 1

**Date Reported:** 28/07/2021

**GF 236.10**

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 20-1543.07

Job Number: 21-73232

Date Sampled: 27/04/2021

Date Received: 29/04/2021

Date Tested: 11/05/2021

Sampled By: Client

### Test Results:

Laboratory Reference: 1861480

Hole No.: CP06

Sample Reference: D11

Soil Description: Cream colour CHALK

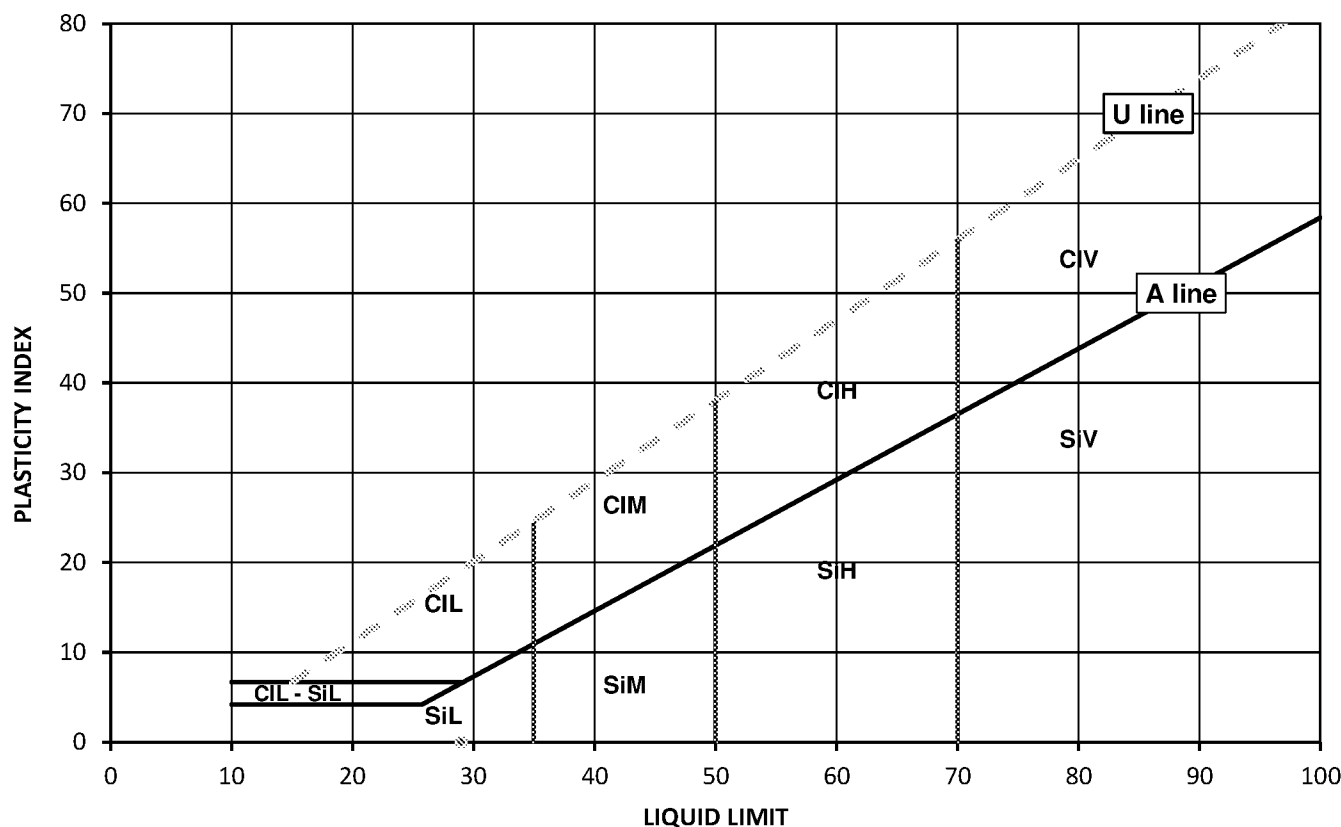
Depth Top [m]: 15.50

Depth Base [m]: 15.95

Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 29                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    |      | Plasticity |           | Liquid Limit                                              |
|----|------|------------|-----------|-----------------------------------------------------------|
| Cl | Clay | L          | Low       | below 35                                                  |
| Si | Silt | M          | Medium    | 35 to 50                                                  |
|    |      | H          | High      | 50 to 70                                                  |
|    |      | V          | Very high | exceeding 70                                              |
|    |      | O          | Organic   | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

|          |                                                   |
|----------|---------------------------------------------------|
| Remarks: | NP - non plastic<br>Re-issue 1: Site name amended |
|----------|---------------------------------------------------|

**Signed:**

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
**for and on behalf of i2 Analytical Ltd**

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Page 1 of 1

**Date Reported:** 28/07/2021

**GF 236.10**



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: 27/04/2021  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

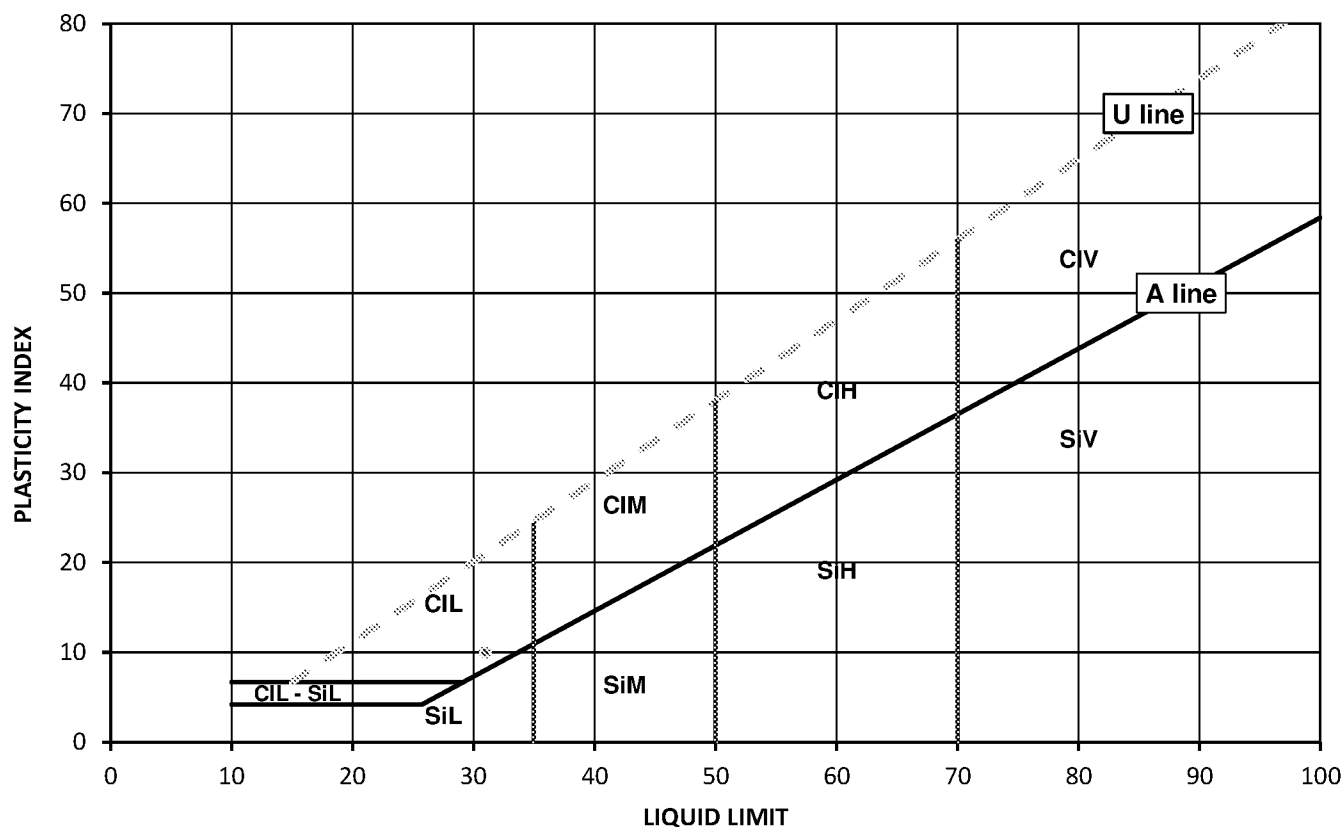
### Test Results:

Laboratory Reference: 1861481  
Hole No.: CP06  
Sample Reference: D14  
Soil Description: White clayey CHALK

Depth Top [m]: 20.00  
Depth Base [m]: 20.16  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                   | 31                    | 21                     | 10                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Clay | Plasticity  | Liquid Limit                                              |
|----|------|-------------|-----------------------------------------------------------|
| Cl | Clay | L Low       | below 35                                                  |
| Si | Silt | M Medium    | 35 to 50                                                  |
|    |      | H High      | 50 to 70                                                  |
|    |      | V Very high | exceeding 70                                              |
|    |      | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: Not Given  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

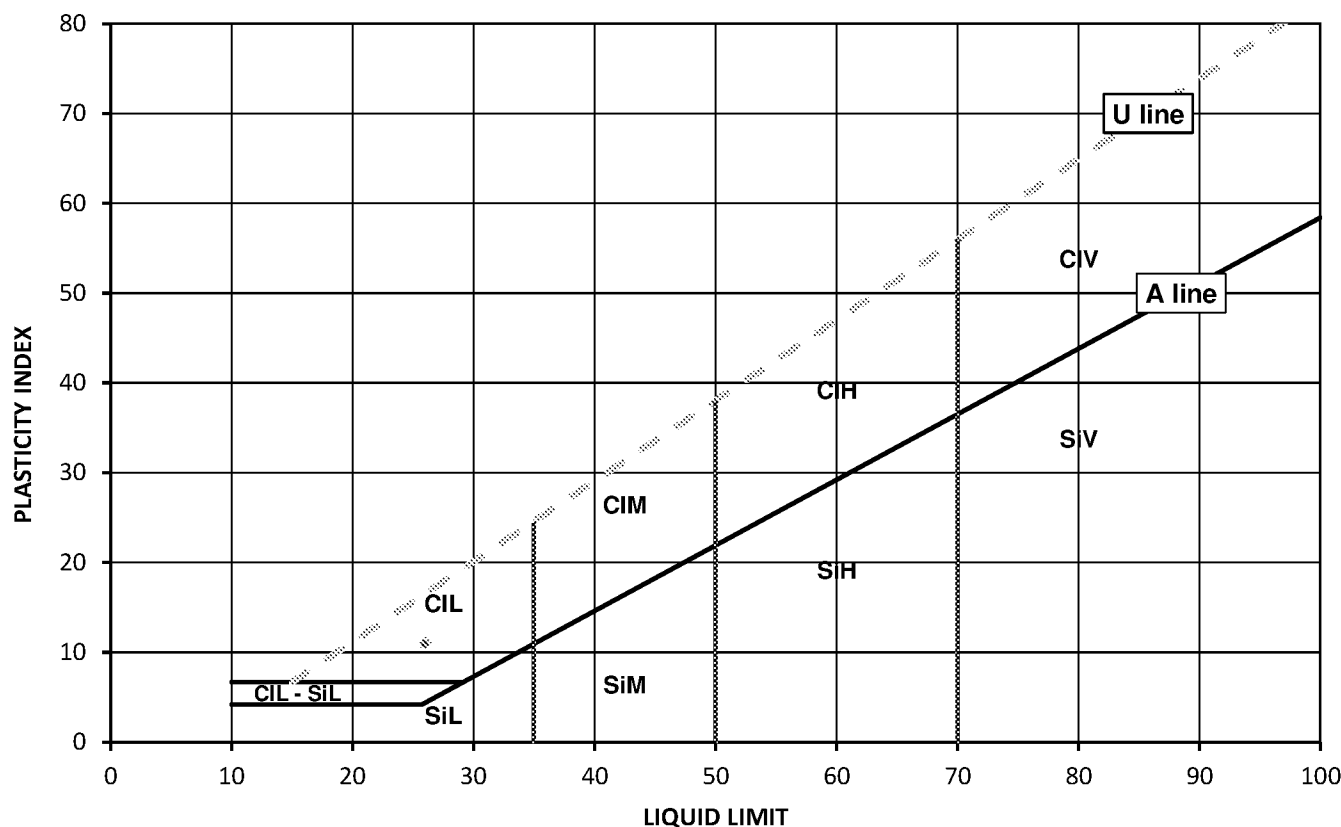
### Test Results:

Laboratory Reference: 1861483  
Hole No.: CP02  
Sample Reference: D2  
Soil Description: Greyish brown slightly gravelly very sandy CLAY

Depth Top [m]: 2.00  
Depth Base [m]: 2.45  
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 18                                   | 26                    | 15                     | 11                        | 94                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: Not Given  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

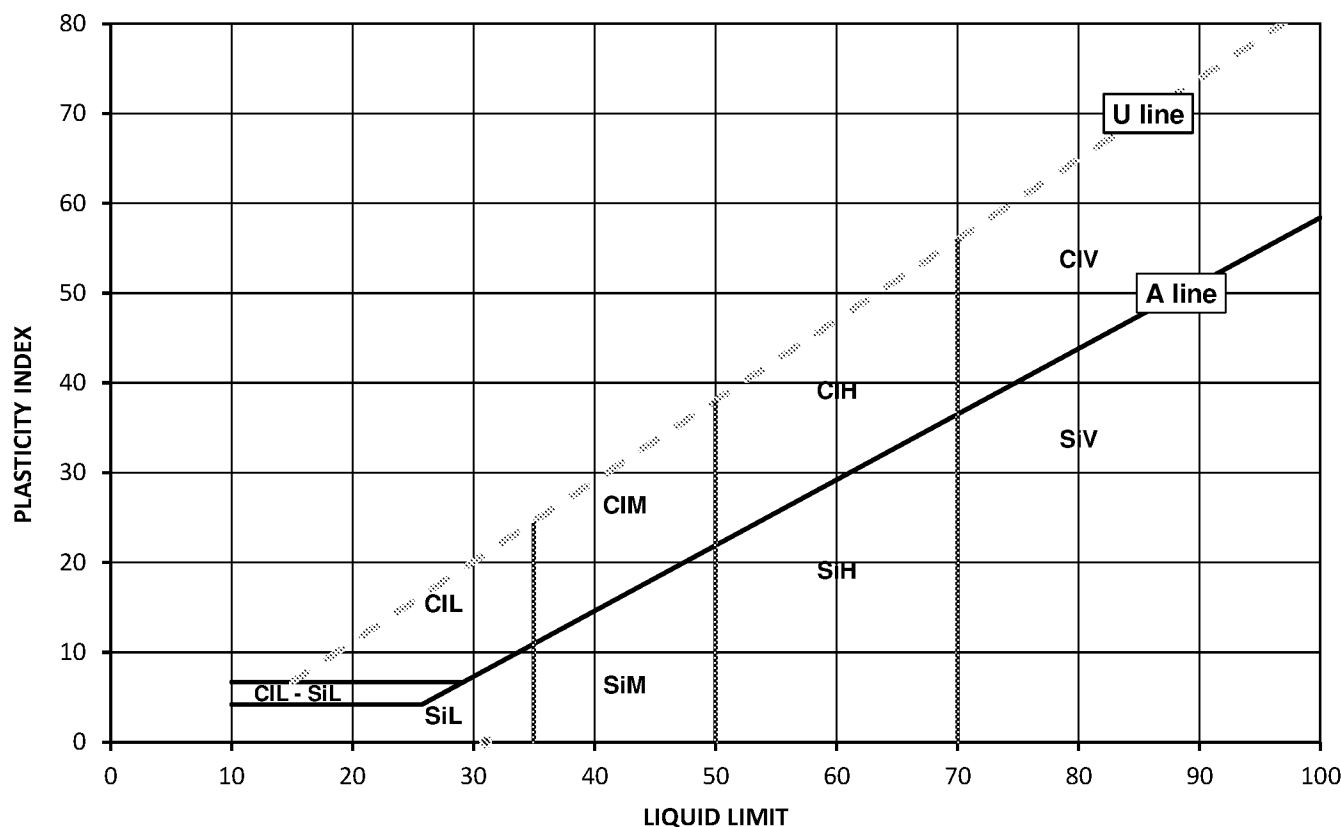
### Test Results:

Laboratory Reference: 1861484  
Hole No.: CP02  
Sample Reference: D5  
Soil Description: Cream colour CHALK

Depth Top [m]: 5.00  
Depth Base [m]: 5.45  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 28                                   | 31                    | NP                     | NP                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: Not Given  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

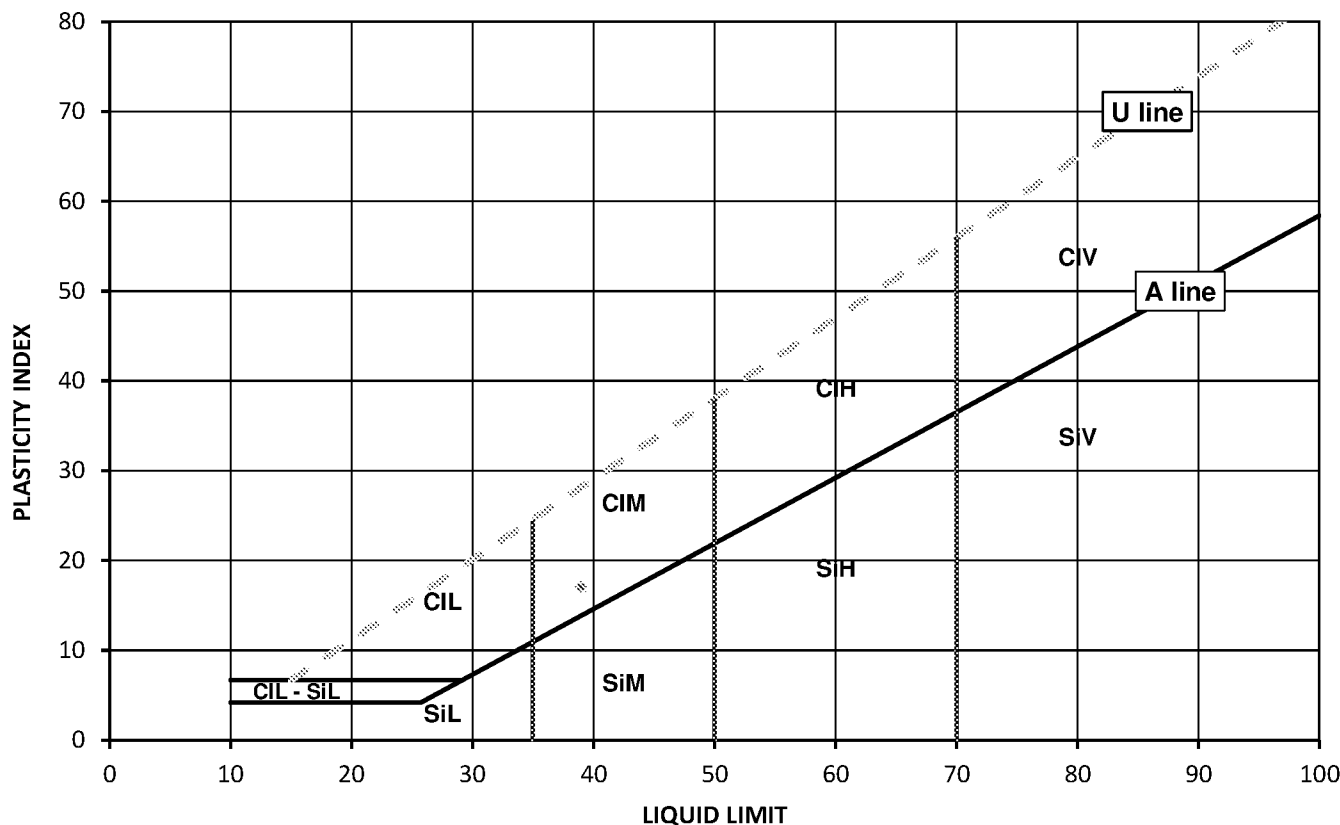
### Test Results:

Laboratory Reference: 1861487  
Hole No.: CP02  
Sample Reference: D10  
Soil Description: Cream colour slightly gravelly sandy CLAY with fragments of flintstone and chalk

Depth Top [m]: 12.50  
Depth Base [m]: 12.95  
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 30                                   | 39                    | 22                     | 17                        | 95                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: Not Given  
Date Received: 29/04/2021  
Date Tested: 11/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

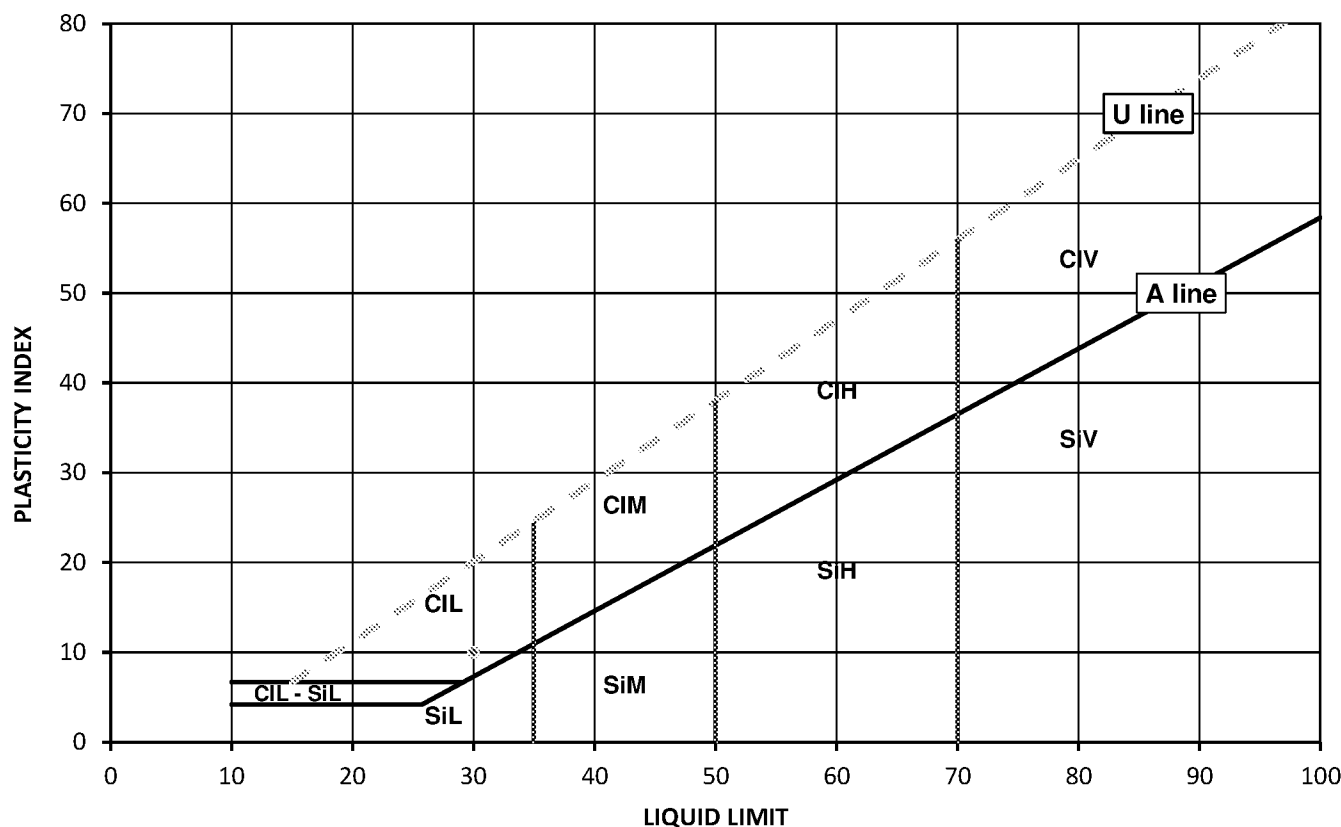
### Test Results:

Laboratory Reference: 1861489  
Hole No.: CP02  
Sample Reference: D13  
Soil Description: White clayey CHALK

Depth Top [m]: 17.00  
Depth Base [m]: 17.31  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 21                                   | 30                    | 20                     | 10                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 236.10



4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-73232

Date Sampled: Not Given

Date Received: 29/04/2021

Date Tested: 11/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description                                                                      | Remarks           | Moisture Content<br>[ W ] | Water Content<br>[ W ] | Atterberg       |    |    |    | Density |     |    | Total Porosity# |  |  |
|----------------------|----------|-----------|-----------|------------|------|----------------------------------------------------------------------------------|-------------------|---------------------------|------------------------|-----------------|----|----|----|---------|-----|----|-----------------|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                                                                                  |                   |                           |                        | % Passing 425um | WL | Wp | Ip | bulk    | dry | PD |                 |  |  |
|                      |          |           | m         | m          |      |                                                                                  |                   |                           |                        |                 |    |    |    |         |     |    |                 |  |  |
| 1861483              | CP02     | D2        | 2.00      | 2.45       | D    | Greyish brown slightly gravelly very sandy CLAY                                  | Atterberg 4 Point | 18                        |                        | 94              | 26 | 15 | 11 |         |     |    |                 |  |  |
| 1861484              | CP02     | D5        | 5.00      | 5.45       | D    | Cream colour CHALK                                                               | Atterberg 4 Point | 28                        |                        | 100             | 31 | NP | NP |         |     |    |                 |  |  |
| 1861487              | CP02     | D10       | 12.50     | 12.95      | D    | Cream colour slightly gravelly sandy CLAY with fragments of flintstone and chalk | Atterberg 4 Point | 30                        |                        | 95              | 39 | 22 | 17 |         |     |    |                 |  |  |
| 1861489              | CP02     | D13       | 17.00     | 17.31      | D    | White clayey CHALK                                                               | Atterberg 4 Point | 21                        |                        | 100             | 30 | 20 | 10 |         |     |    |                 |  |  |
| 1861474              | CP06     | D2        | 2.00      | 2.45       | D    | Brown slightly gravelly sandy CLAY                                               | Atterberg 4 Point | 20                        |                        | 98              | 41 | 21 | 20 |         |     |    |                 |  |  |
| 1861475              | CP06     | D3        | 3.00      | 3.45       | D    | Brown sandy CLAY                                                                 | Atterberg 4 Point | 28                        |                        | 100             | 36 | 20 | 16 |         |     |    |                 |  |  |
| 1861477              | CP06     | D5        | 6.50      | 6.95       | D    | Cream colour slightly gravelly CHALK                                             | Atterberg 4 Point | 19                        |                        | 89              | 32 | 21 | 11 |         |     |    |                 |  |  |
| 1861479              | CP06     | D9        | 12.50     | 12.95      | D    | Cream colour CHALK                                                               | Atterberg 4 Point | 22                        |                        | 100             | 28 | NP | NP |         |     |    |                 |  |  |
| 1861480              | CP06     | D11       | 15.50     | 15.95      | D    | Cream colour CHALK                                                               | Atterberg 4 Point | 19                        |                        | 100             | 29 | NP | NP |         |     |    |                 |  |  |
| 1861481              | CP06     | D14       | 20.00     | 20.16      | D    | White clayey CHALK                                                               | Atterberg 4 Point | 22                        |                        | 100             | 31 | 21 | 10 |         |     |    |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 1: Site name amended

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Unconsolidated Undrained Triaxial Compression

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 9

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07

Job Number: 21-73232

Date Sampled: 26/04/2021

Date Received: 29/04/2021

Date Tested: 10/05/2021

Sampled By: Client

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1861473

Hole No.: CP06

Sample Reference: U1

Sample Description: Brown slightly sandy CLAY

Depth Top [m]: 1.20

Depth Base [m]: 1.65

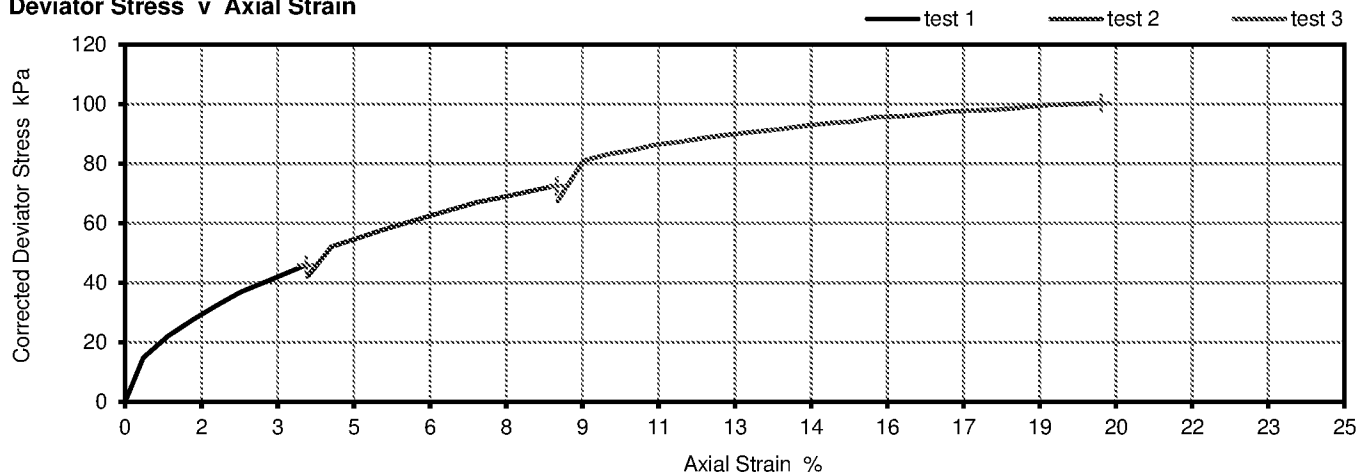
Sample Type: U

|                    |        |                   |
|--------------------|--------|-------------------|
| Length             | 139.23 | mm                |
| Diameter           | 69.00  | mm                |
| Bulk Density       | 2.08   | Mg/m <sup>3</sup> |
| Moisture Content   | 26     | %                 |
| Dry Density        | 1.65   | Mg/m <sup>3</sup> |
| Membrane thickness | 0.25   | mm                |

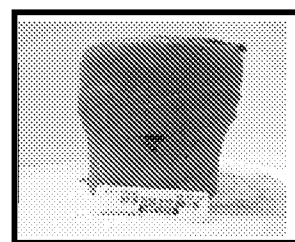
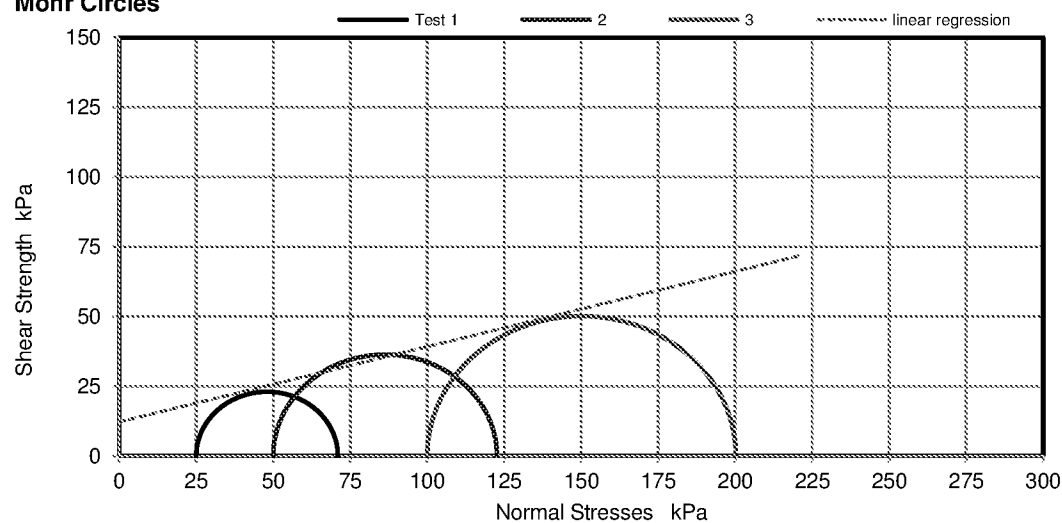
Rate of Strain  
Stage Number  
Cell Pressure  
Axial Strain at failure  
Deviator Stress, ( $\sigma_1 - \sigma_3$ )<sub>f</sub>  
Shear strength,  $c_u$   
Mode of failure  
Membrane Correction

|          |      |      |       |
|----------|------|------|-------|
| 2.00     |      |      | %/min |
| 1        | 2    | 3    |       |
| 25       | 50   | 100  | kPa   |
| 3.7      | 8.8  | 20.0 | %     |
| 46       | 73   | 100  | kPa   |
| 23       | 36   | 50   | kPa   |
| Compound |      |      |       |
| 0.37     | 0.74 | 1.39 | kPa   |

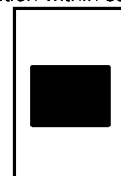
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Linear Regression  
 $\phi_u$  15.1 °  
 $c_u$  12 kPa

Note: Mohr circles and their interpretation is not covered by BS1377. These are provided for information only.

Remarks: Correction values: 25kPa=17N, 50kPa=26N, 100kPa=53N  
Re-issue 1: Site name amended

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 186.11



# TEST CERTIFICATE

## Unconsolidated Undrained Triaxial Compression

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 9

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-73232  
Date Sampled: Not Given  
Date Received: 29/04/2021  
Date Tested: 10/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1861482  
Hole No.: CP02  
Sample Reference: U1  
Sample Description: Brown CLAY

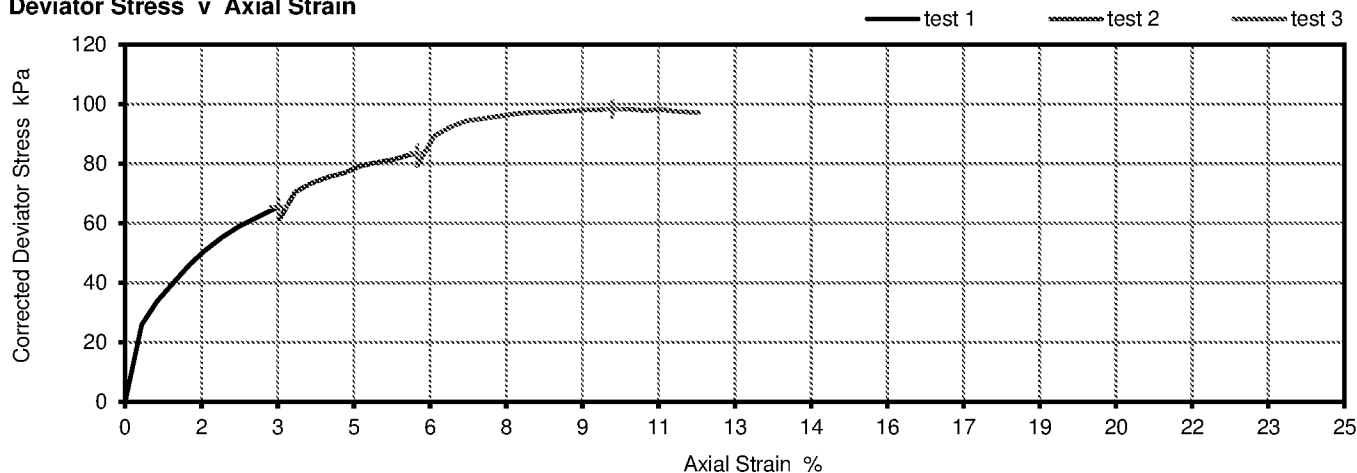
Depth Top [m]: 1.20  
Depth Base [m]: 1.65  
Sample Type: U

|                    |        |                   |
|--------------------|--------|-------------------|
| Length             | 138.63 | mm                |
| Diameter           | 69.25  | mm                |
| Bulk Density       | 1.87   | Mg/m <sup>3</sup> |
| Moisture Content   | 34     | %                 |
| Dry Density        | 1.40   | Mg/m <sup>3</sup> |
| Membrane thickness | 0.26   | mm                |

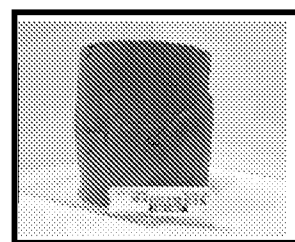
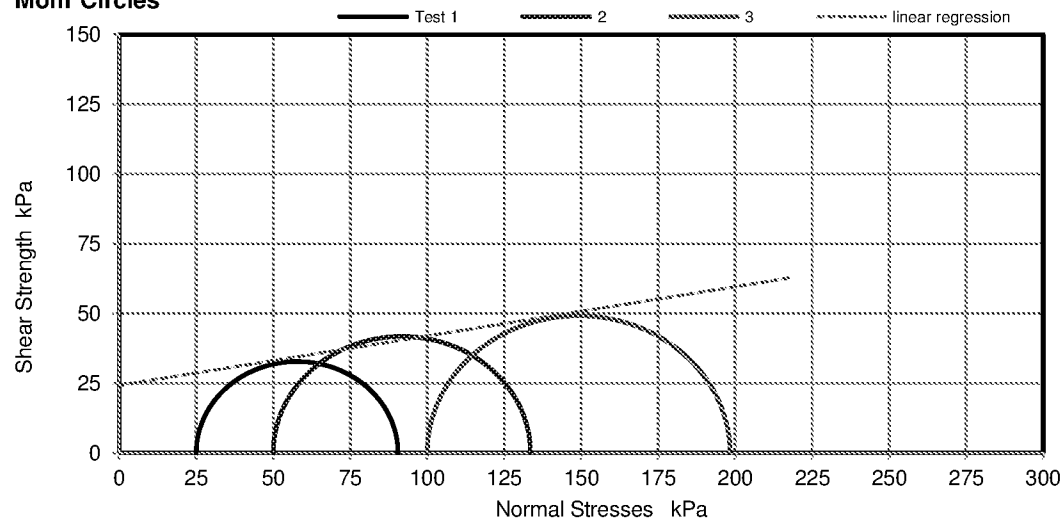
Rate of Strain  
Stage Number  
Cell Pressure  
Axial Strain at failure  
Deviator Stress, ( $\sigma_1 - \sigma_3$ )<sub>f</sub>  
Shear strength,  $c_u$   
Mode of failure  
Membrane Correction

|          |      |      |       |
|----------|------|------|-------|
| 2.00     |      |      | %/min |
| 1        | 2    | 3    |       |
| 25       | 50   | 100  | kPa   |
| 3.1      | 6.0  | 10.0 | %     |
| 66       | 84   | 98   | kPa   |
| 33       | 42   | 49   | kPa   |
| Compound |      |      |       |
| 0.32     | 0.59 | 0.84 | kPa   |

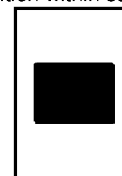
### Deviator Stress v Axial Strain



### Mohr Circles



Position within sample



Linear Regression  
 $\phi_u$  10.0 °  
 $c_u$  24 kPa

Note: Mohr circles and their interpretation is not covered by BS1377. These are provided for information only.

Remarks: Correction values: 25kPa=14N, 50kPa=25N, 100kPa=53N  
Re-issue 1: Site name amended

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

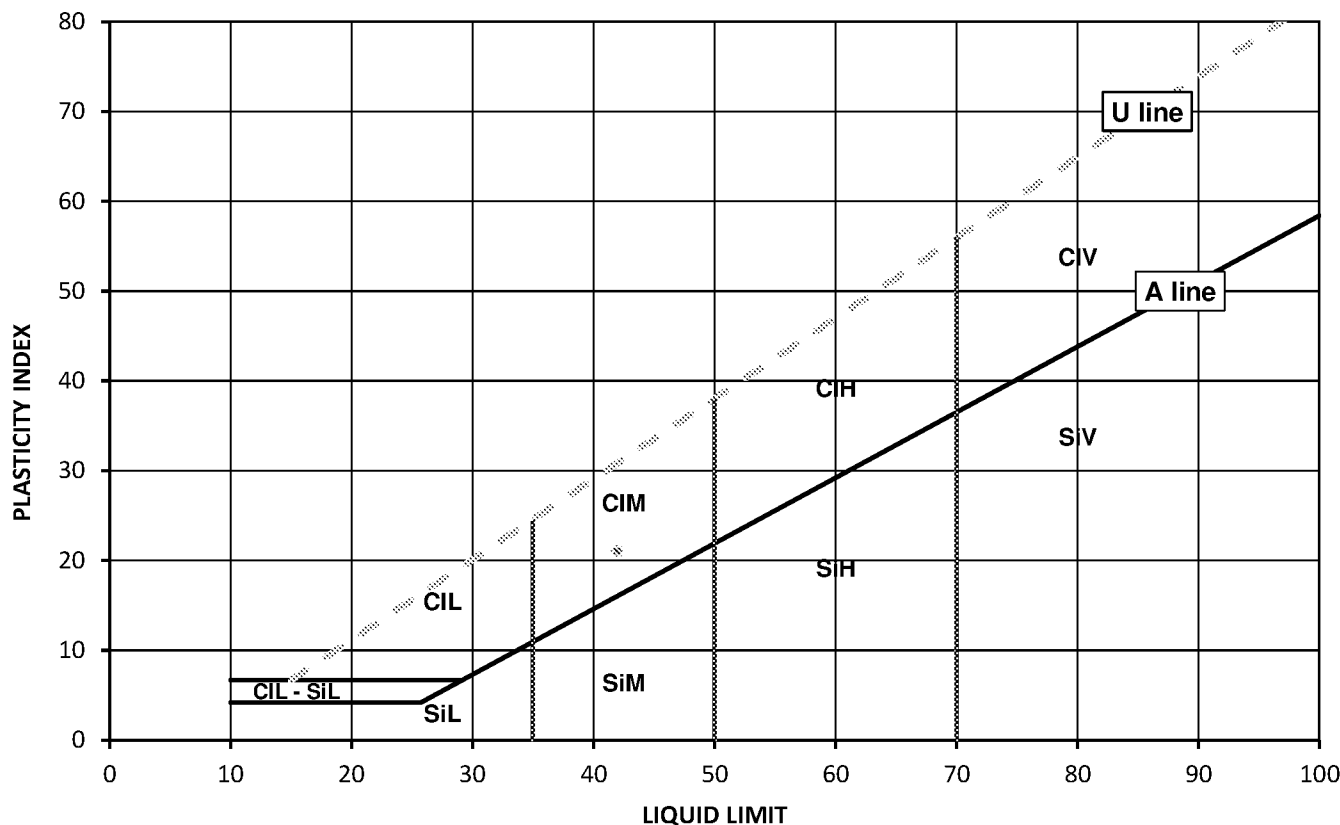
### Test Results:

Laboratory Reference: 1868955  
Hole No.: TP201  
Sample Reference: B4  
Soil Description: Brown slightly gravelly sandy clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 18                                   | 42                    | 21                     | 21                        | 97                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: 28/04/2021

Date Received: 04/05/2021

Date Tested: 19/05/2021

Sampled By: Client

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868956

Hole No.: TP217

Sample Reference: B4

Soil Description: Brown slightly sandy clayey SILT

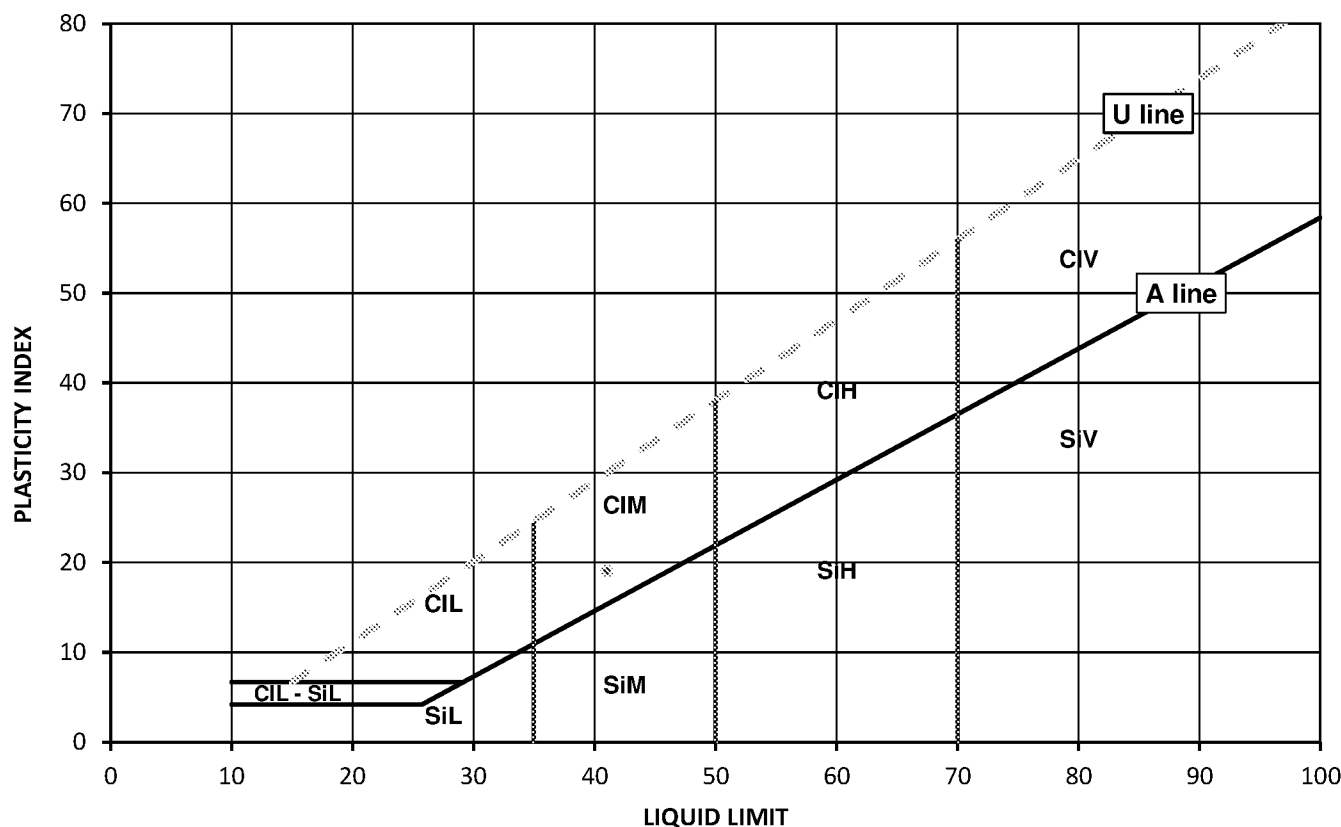
Depth Top [m]: 1.00

Depth Base [m]: 1.20

Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 41                    | 22                     | 19                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

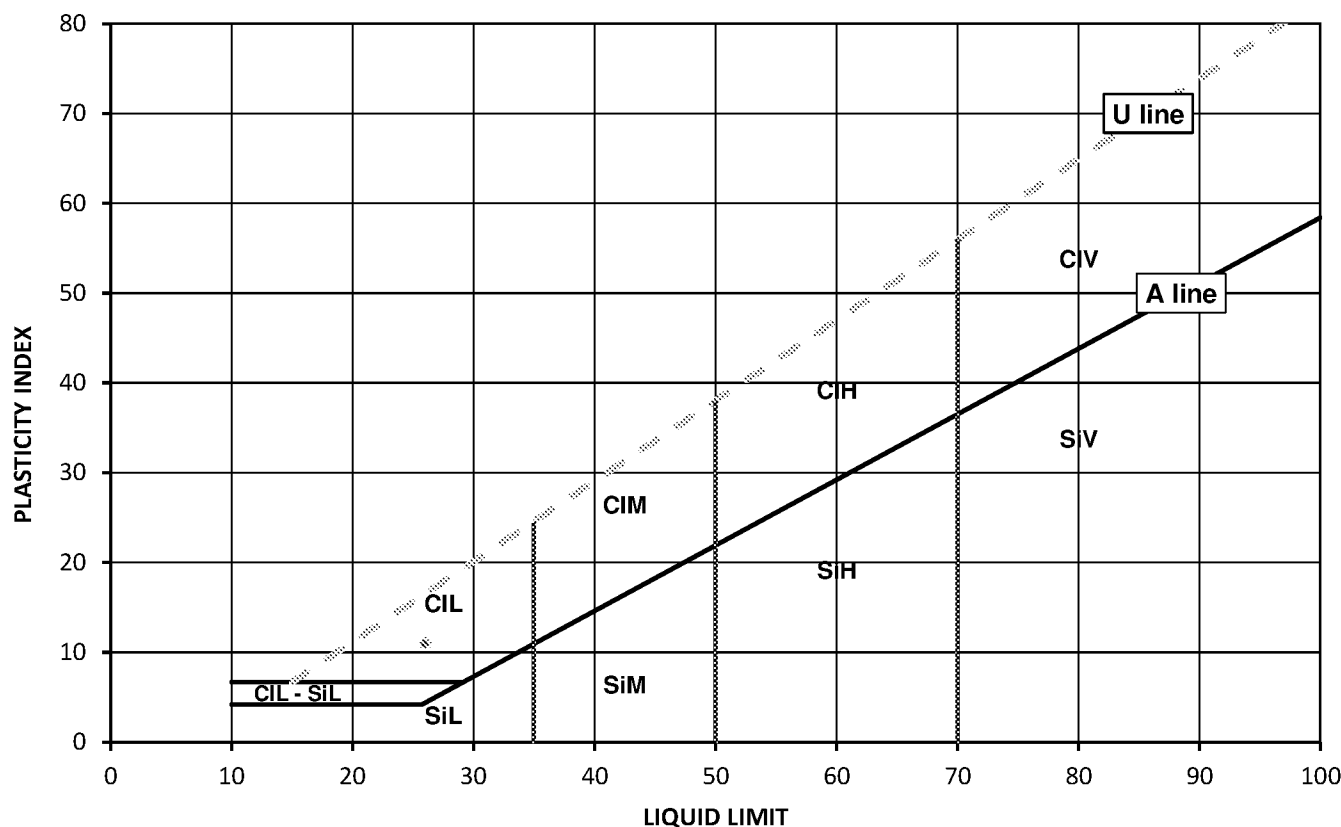
### Test Results:

Laboratory Reference: 1868957  
Hole No.: TP218  
Sample Reference: B9  
Soil Description: Light brown gravelly clayey very sandy SILT with fragments of chalk

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 17                                   | 26                    | 15                     | 11                        | 87                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: Not Given

Date Received: 04/05/2021

Date Tested: 19/05/2021

Sampled By: Client

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868958

Hole No.: TP205

Sample Reference: B4

Soil Description: Brown gravelly sandy clayey SILT with fragments of chalk

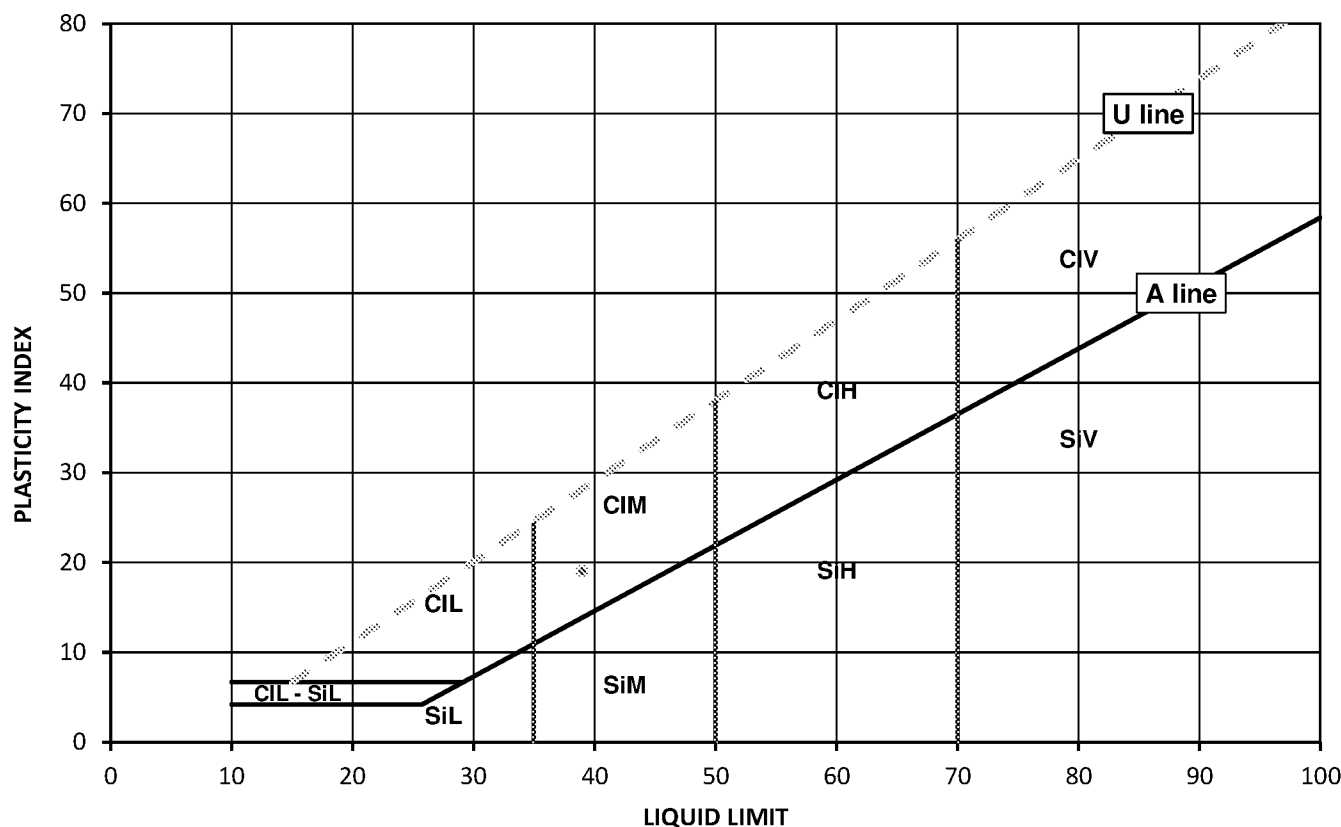
Depth Top [m]: 1.00

Depth Base [m]: 1.20

Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 39                    | 20                     | 19                        | 82                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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## Liquid and Plastic Limits

i2 Analytical Ltd  
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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

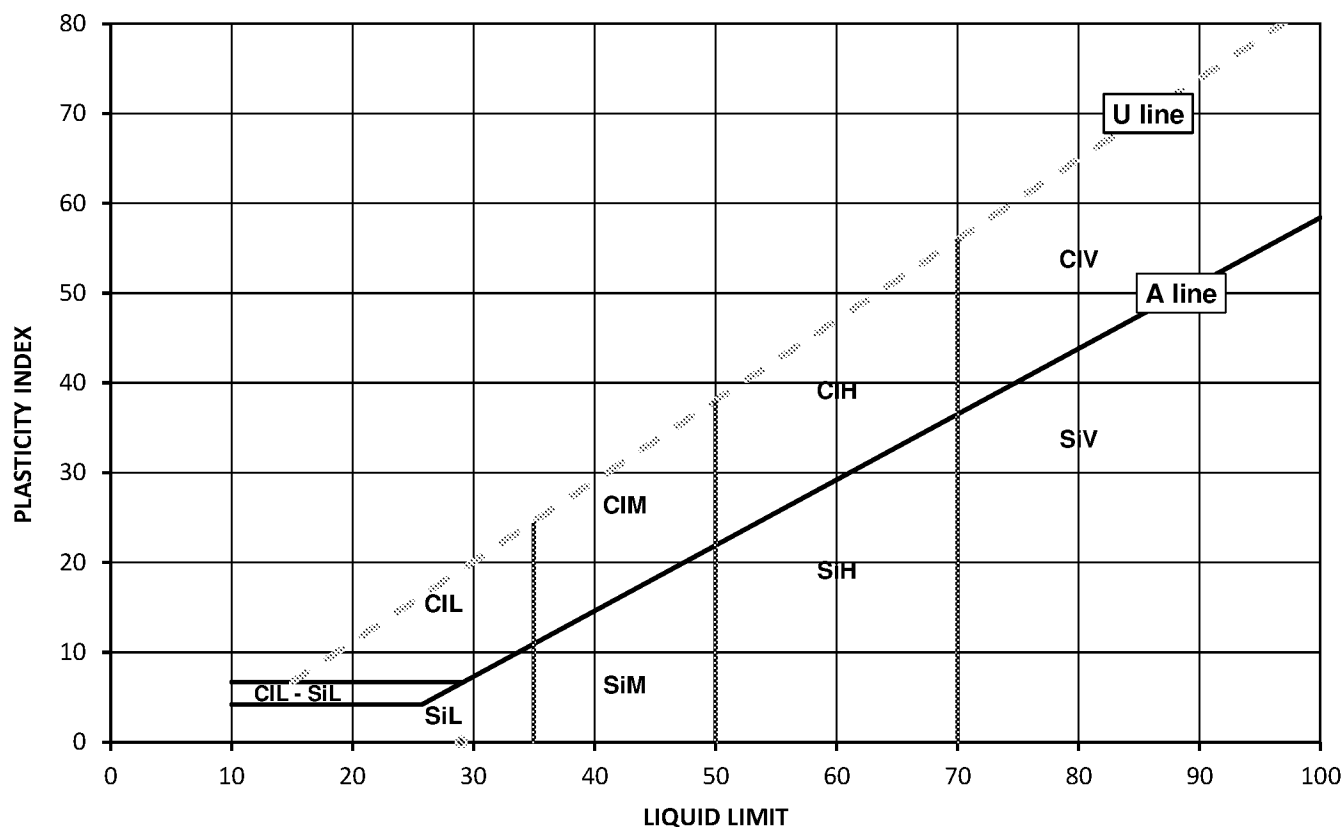
### Test Results:

Laboratory Reference: 1868959  
Hole No.: TP205  
Sample Reference: B6  
Soil Description: Cream colour sandy silty clayey GRAVEL with fragments of chalk

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 21                                   | 29                    | NP                     | NP                        | 56                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                                |
|----|------------|-------------------------------------------------------------|
| Cl | Clay       | L Low                                                       |
| Si | Silt       | M Medium                                                    |
|    |            | H High                                                      |
|    |            | V Very high                                                 |
|    | O Organic  | O append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 2: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

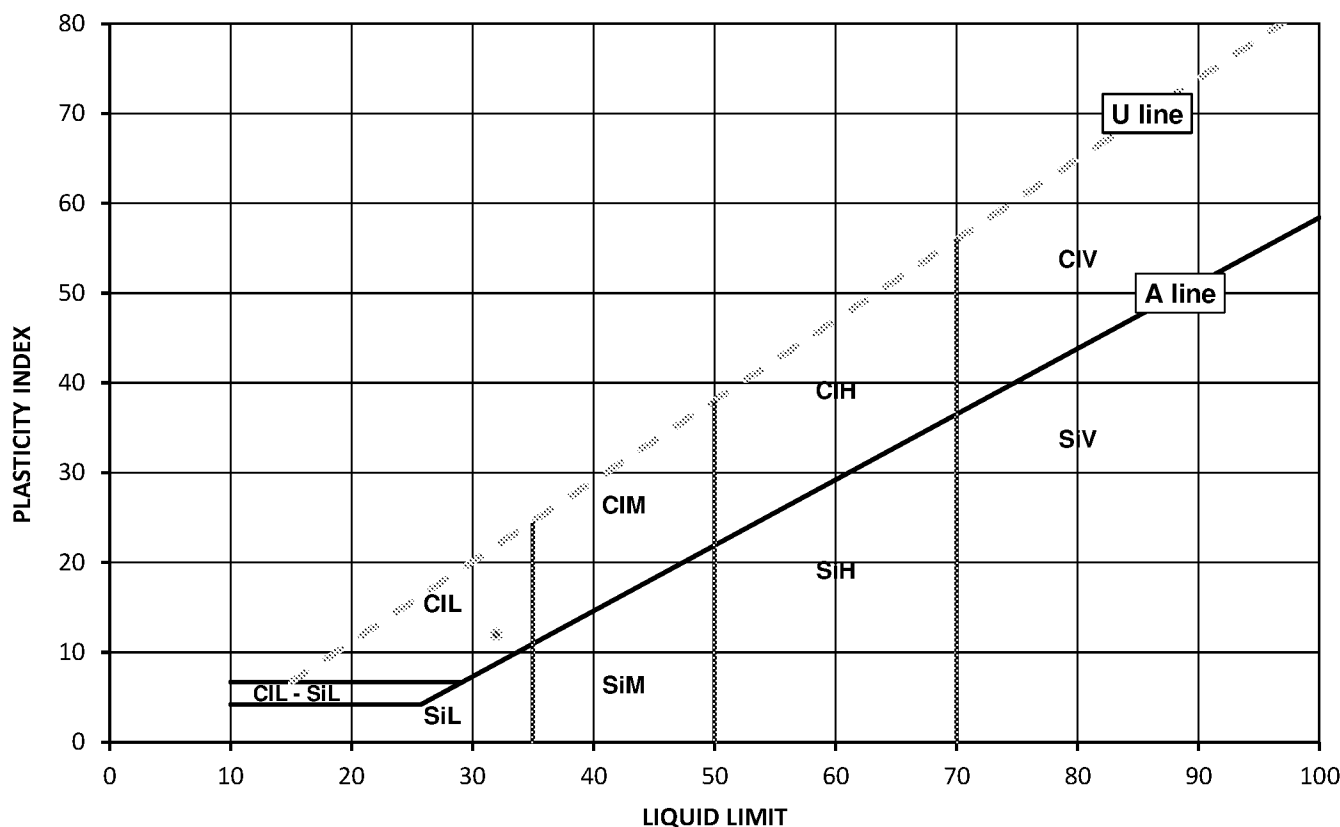
### Test Results:

Laboratory Reference: 1868960  
Hole No.: TP204  
Sample Reference: B8  
Soil Description: Cream colour slightly gravelly CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 24                                   | 32                    | 20                     | 12                        | 95                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

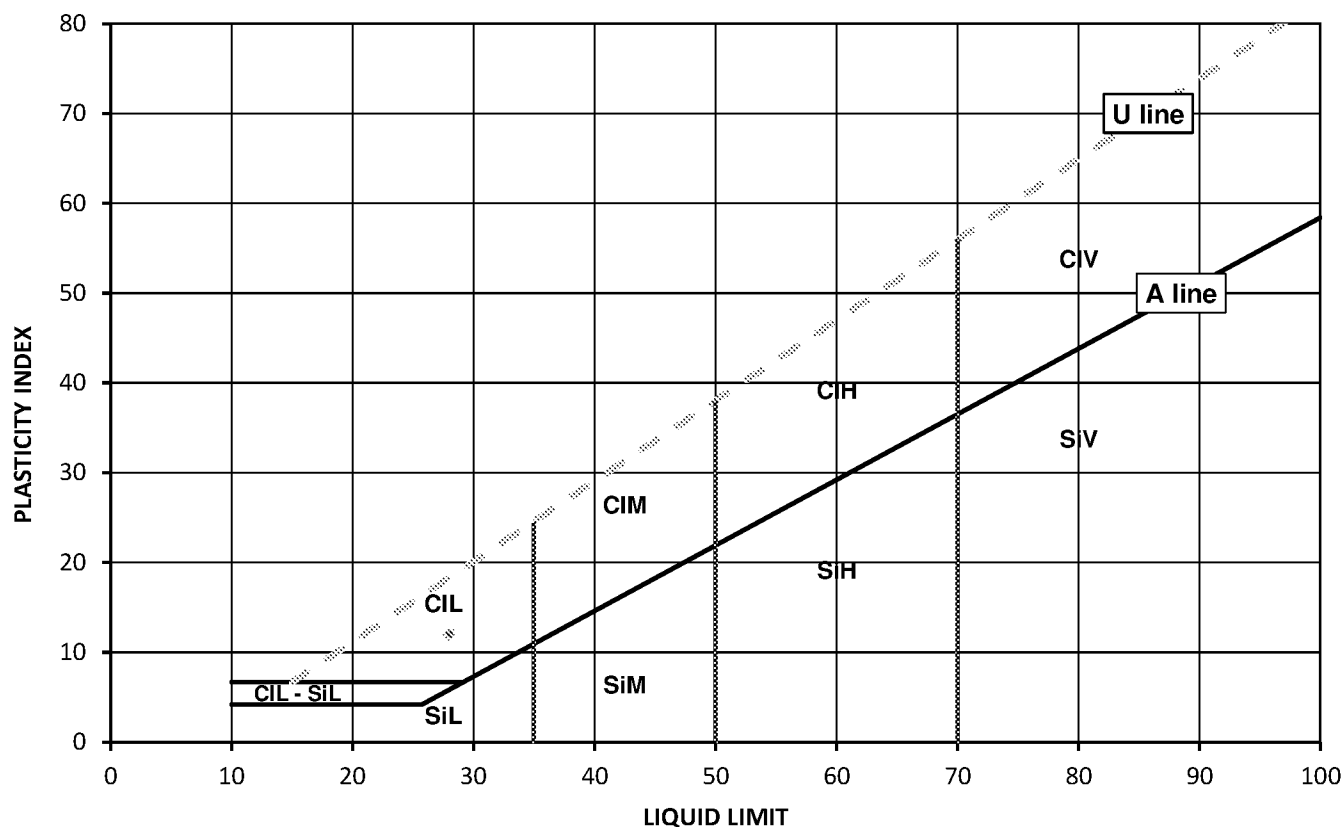
### Test Results:

Laboratory Reference: 1868961  
Hole No.: TP211  
Sample Reference: B5  
Soil Description: Light brown clayey very silty very sandy GRAVEL with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 13                                   | 28                    | 16                     | 12                        | 55                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | L Low                                                     |
| Si | Silt       | M Medium                                                  |
|    |            | H High                                                    |
|    |            | V Very high                                               |
|    | O Organic  | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

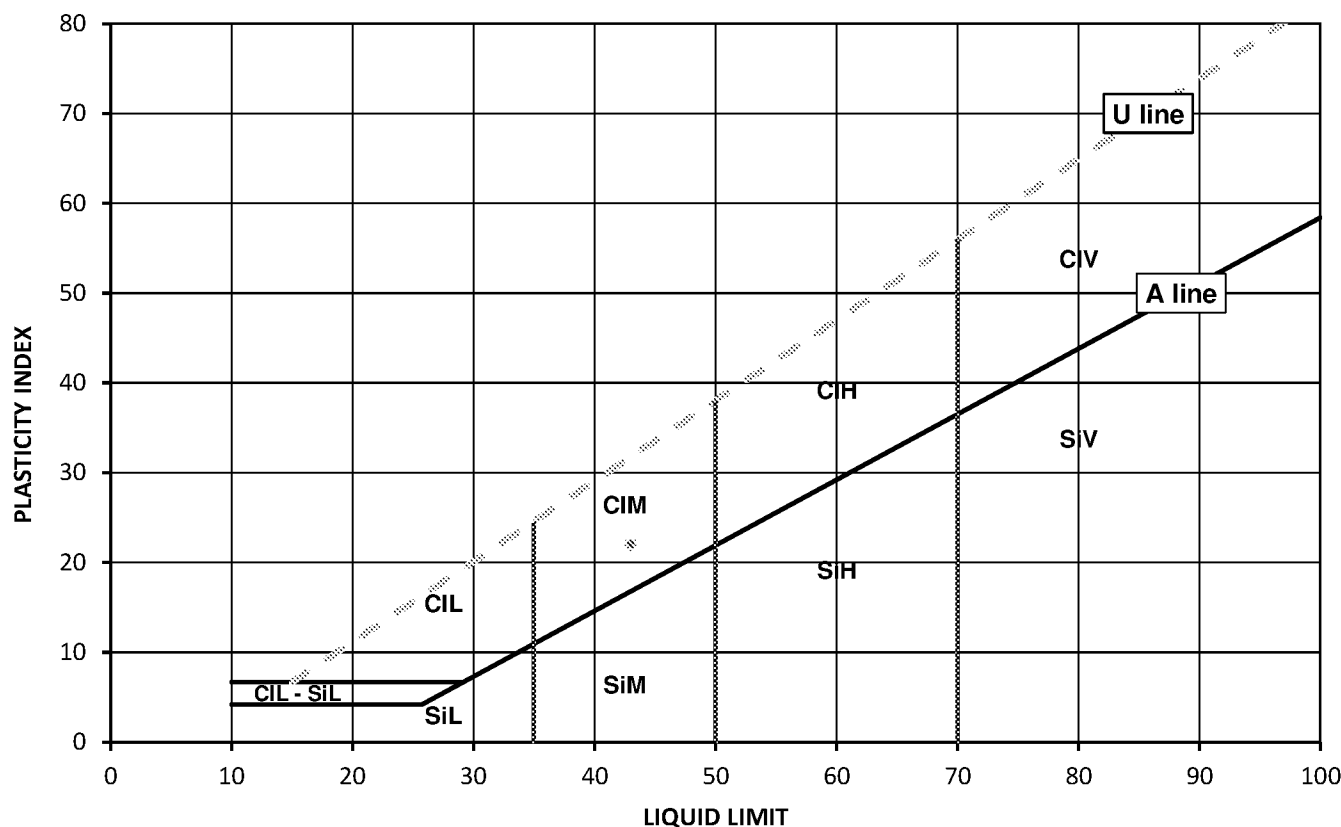
### Test Results:

Laboratory Reference: 1868962  
Hole No.: TP212  
Sample Reference: B5  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 20                                   | 43                    | 21                     | 22                        | 94                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
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Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: 28/04/2021

Date Received: 04/05/2021

Date Tested: 18/05/2021

Sampled By: Client

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868963

Hole No.: TP203

Sample Reference: D7

Soil Description: Yellowish brown slightly gravelly sandy CLAY

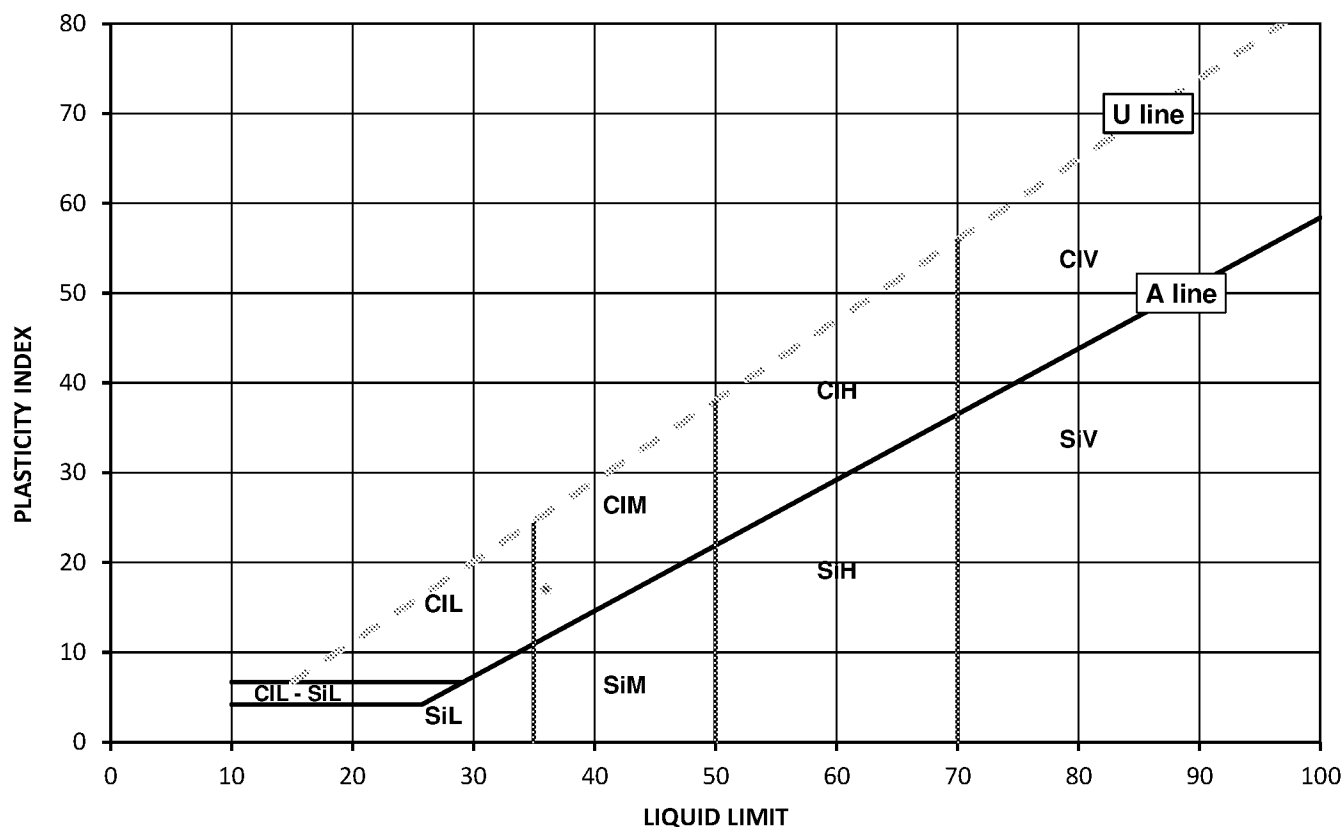
Depth Top [m]: 2.00

Depth Base [m]: Not Given

Sample Type: D

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 17                                   | 36                    | 19                     | 17                        | 94                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

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i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

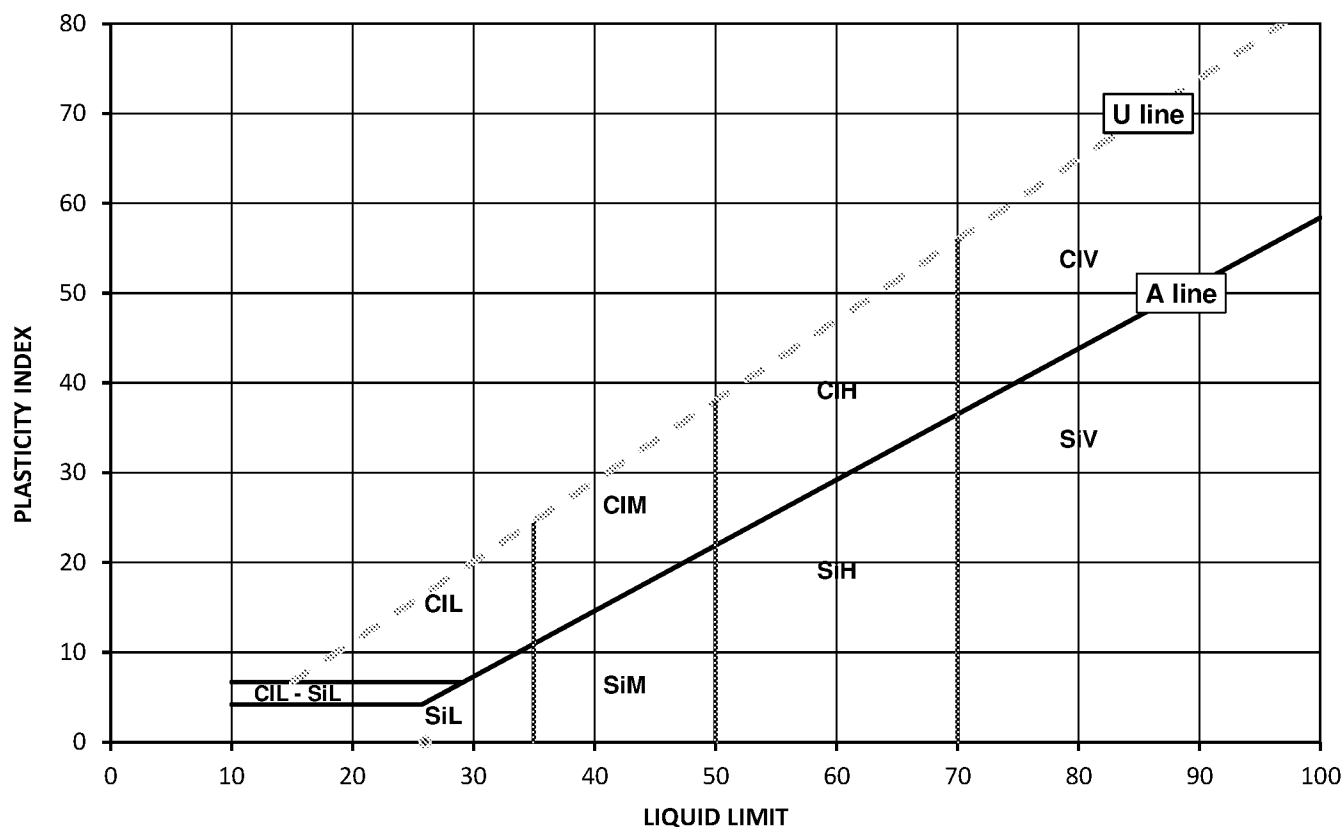
### Test Results:

Laboratory Reference: 1868964  
Hole No.: TP209  
Sample Reference: B8  
Soil Description: Light brown sandy clayey very silty GRAVEL with fragments of chalk

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 18                                   | 26                    | NP                     | NP                        | 48                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

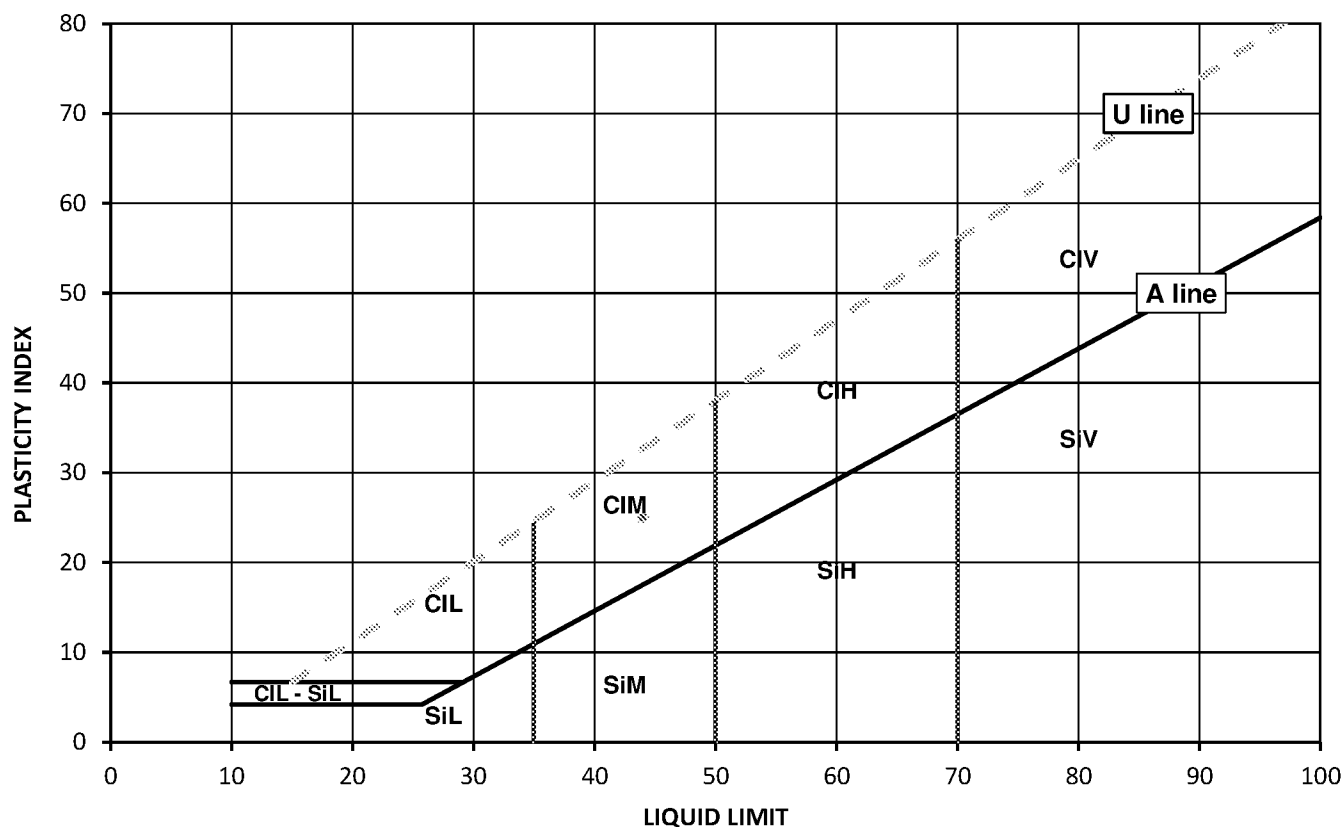
### Test Results:

Laboratory Reference: 1868965  
Hole No.: TP218  
Sample Reference: B4  
Soil Description: Brown sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                   | 44                    | 19                     | 25                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| CI Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

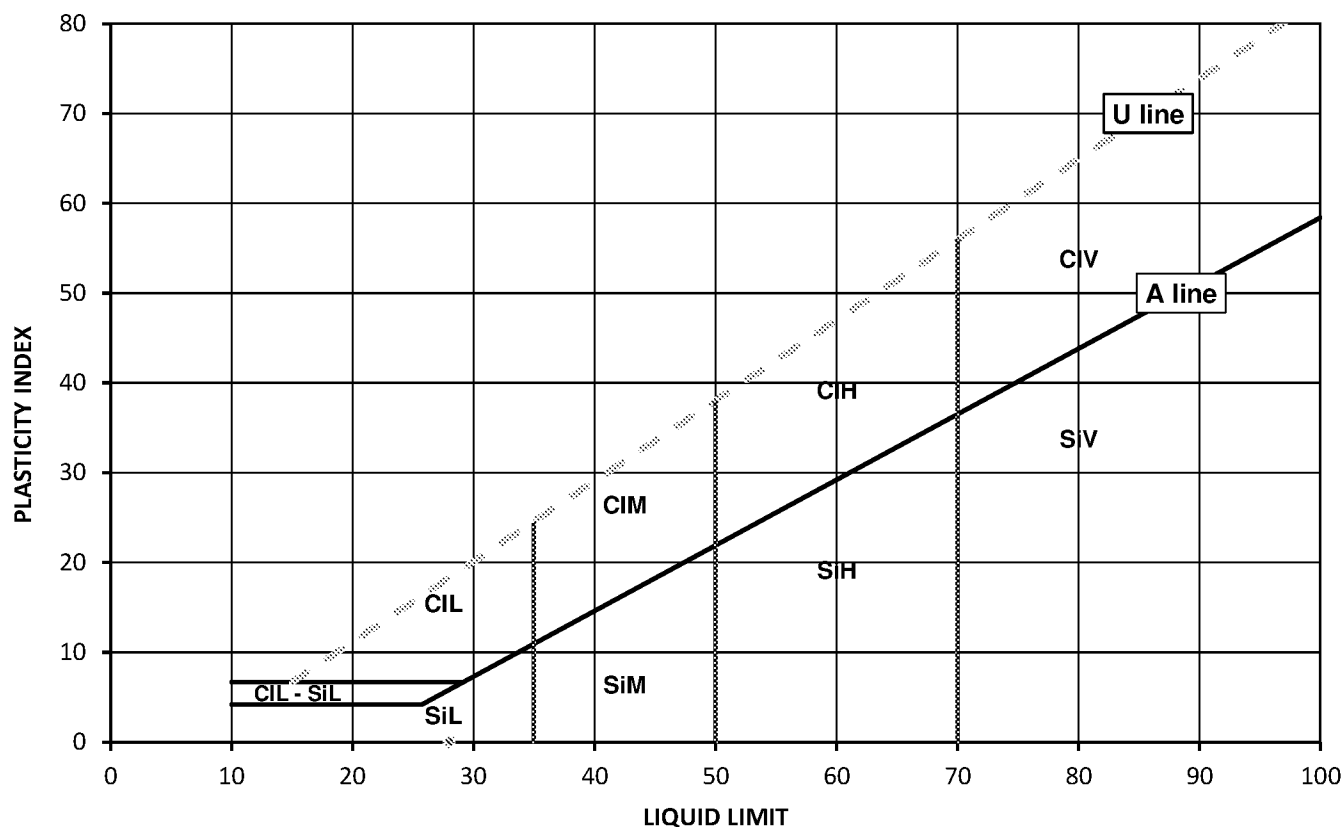
### Test Results:

Laboratory Reference: 1868966  
Hole No.: TP209  
Sample Reference: B10  
Soil Description: Cream colour sandy clayey very gravelly SILT with fragments of chalk

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 28                    | NP                     | NP                        | 65                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: NP - non plastic  
Re-issue 2: Site Address amended.

Signed:

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PL Deputy Head of Geotechnical Section  
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Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

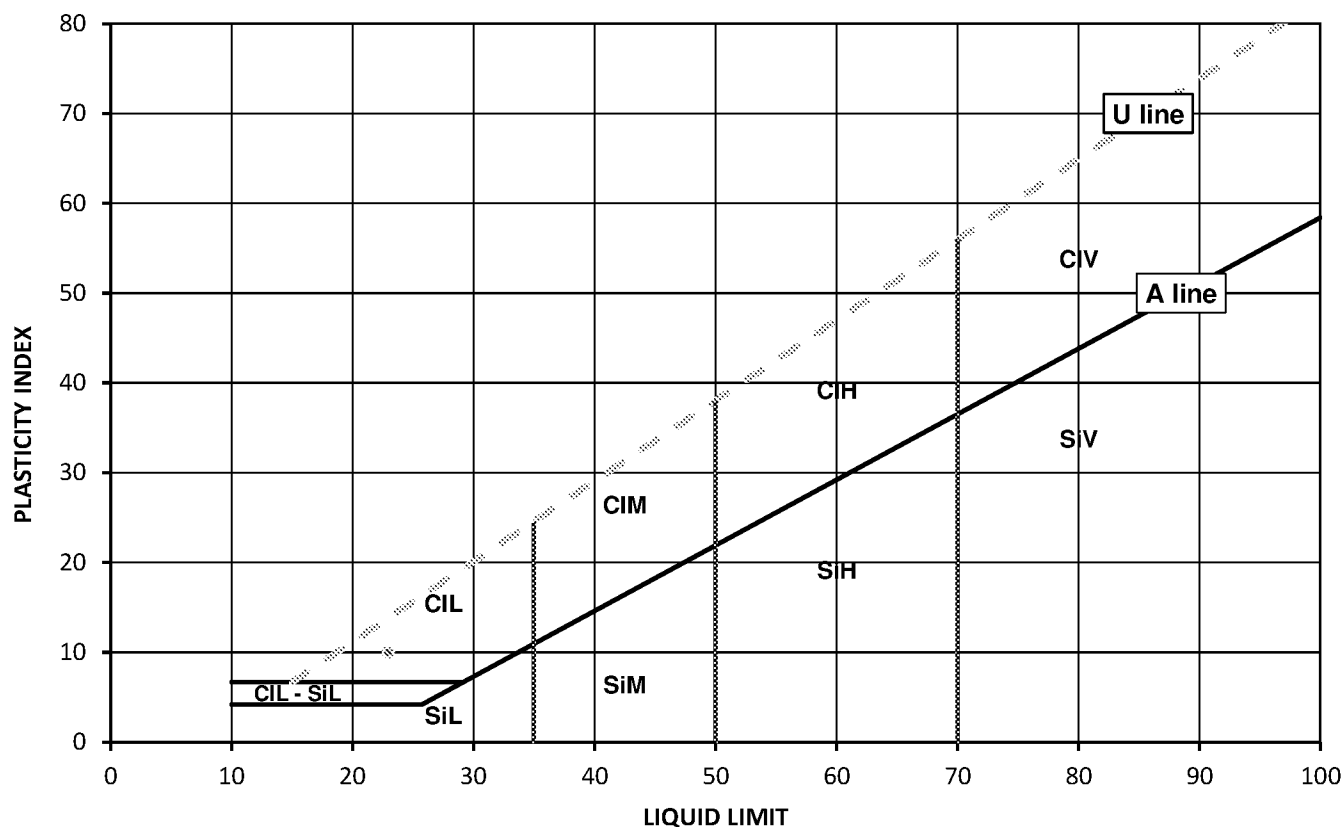
### Test Results:

Laboratory Reference: 1868967  
Hole No.: TP211  
Sample Reference: B10  
Soil Description: Light brown very sandy very gravelly CLAY with fragments of chalk

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425um BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 16                                   | 23                    | 13                     | 10                        | 57                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

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PL Deputy Head of Geotechnical Section  
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Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

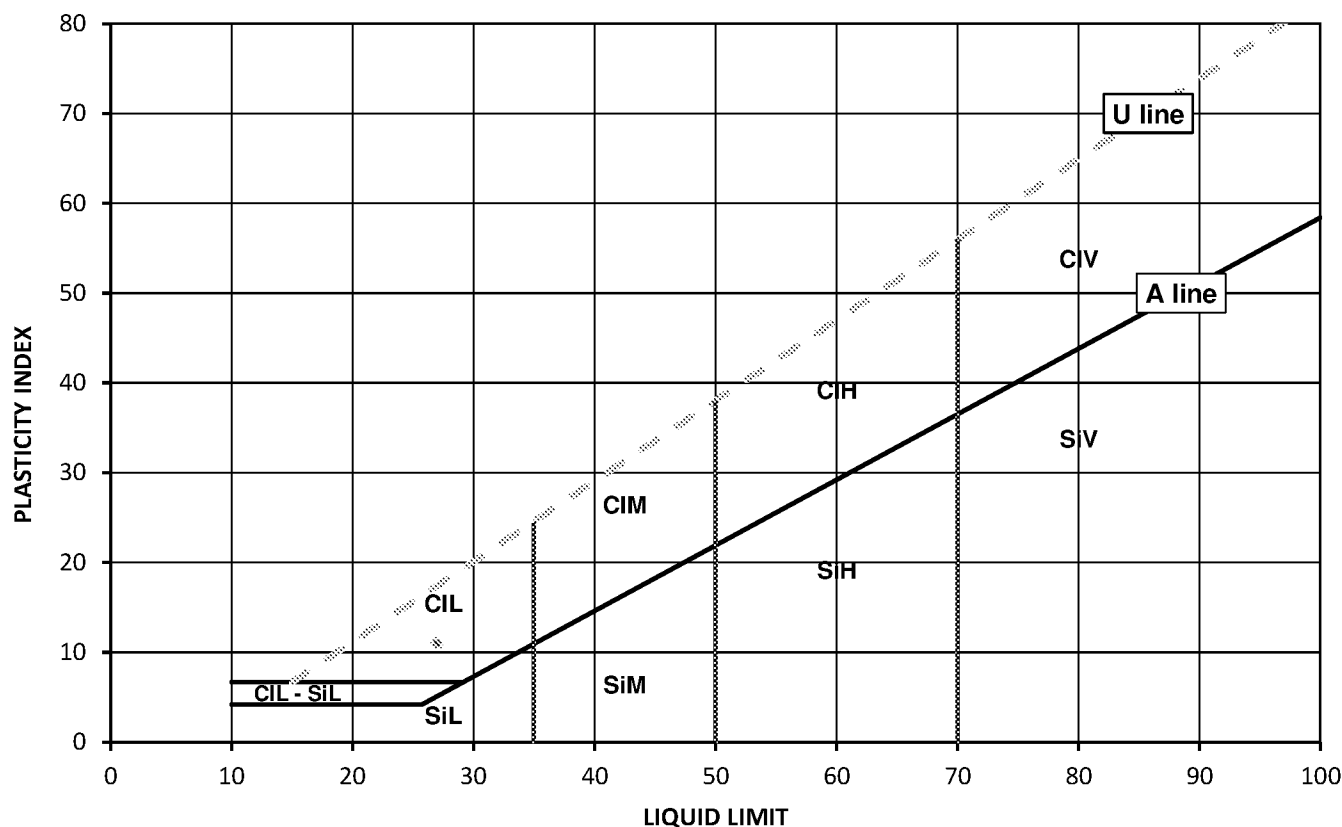
### Test Results:

Laboratory Reference: 1868968  
Hole No.: TP220  
Sample Reference: B6  
Soil Description: Light brown slightly gravelly very sandy CLAY with fragments of chalk

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 17                                   | 27                    | 16                     | 11                        | 91                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

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Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

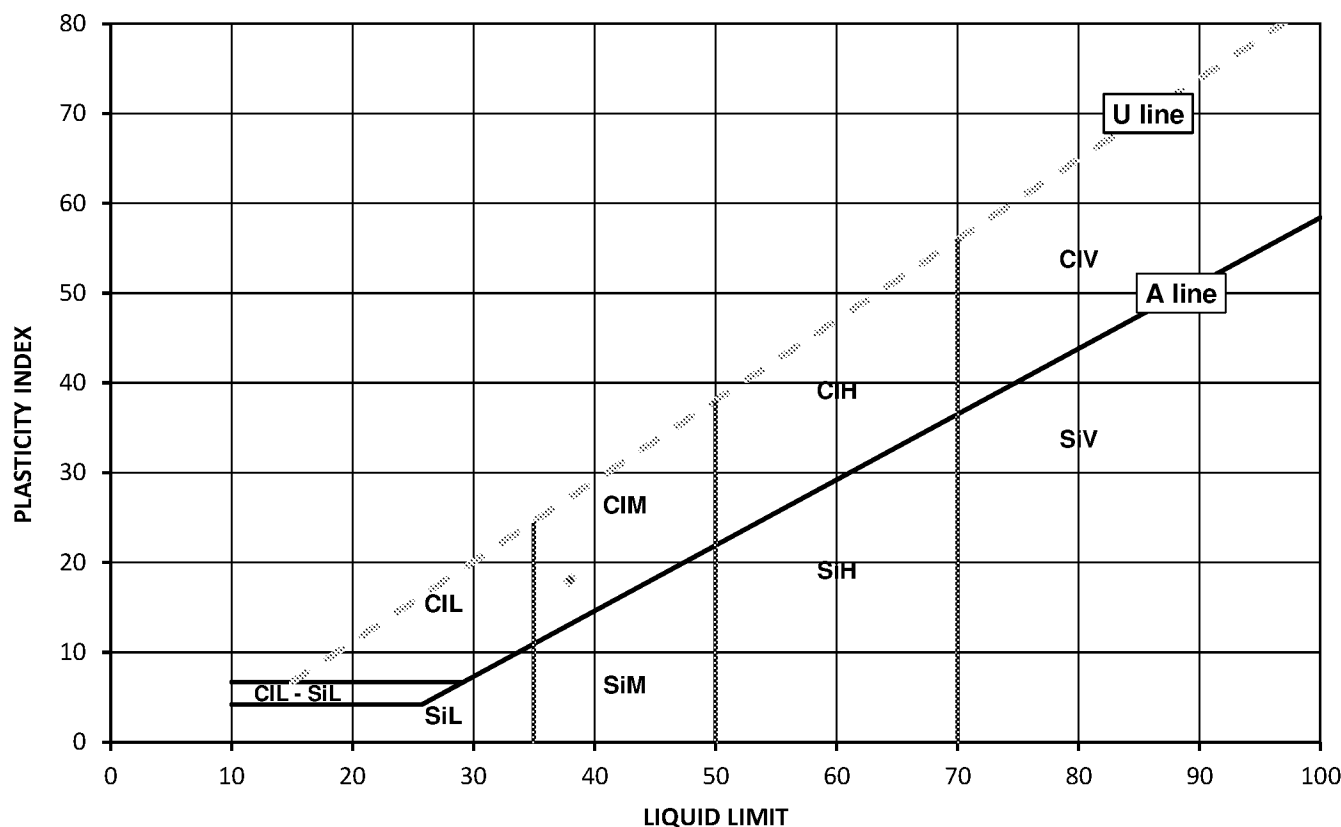
### Test Results:

Laboratory Reference: 1868969  
Hole No.: TP209  
Sample Reference: B5  
Soil Description: Brown sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 21                                   | 38                    | 20                     | 18                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| CI Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

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Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

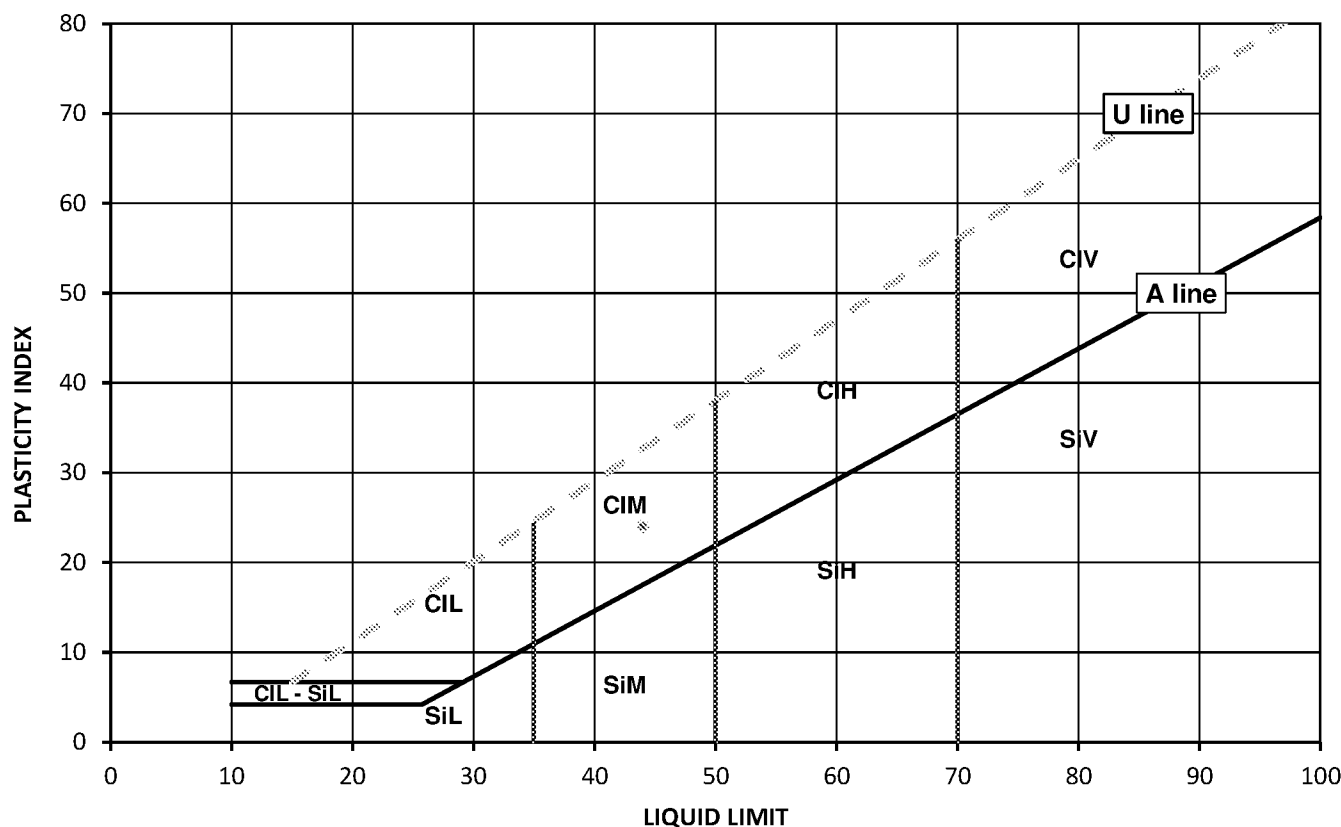
### Test Results:

Laboratory Reference: 1868970  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Soil Description: Brown gravelly sandy clayey SILT with fragments of flintstone

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 44                    | 20                     | 24                        | 86                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

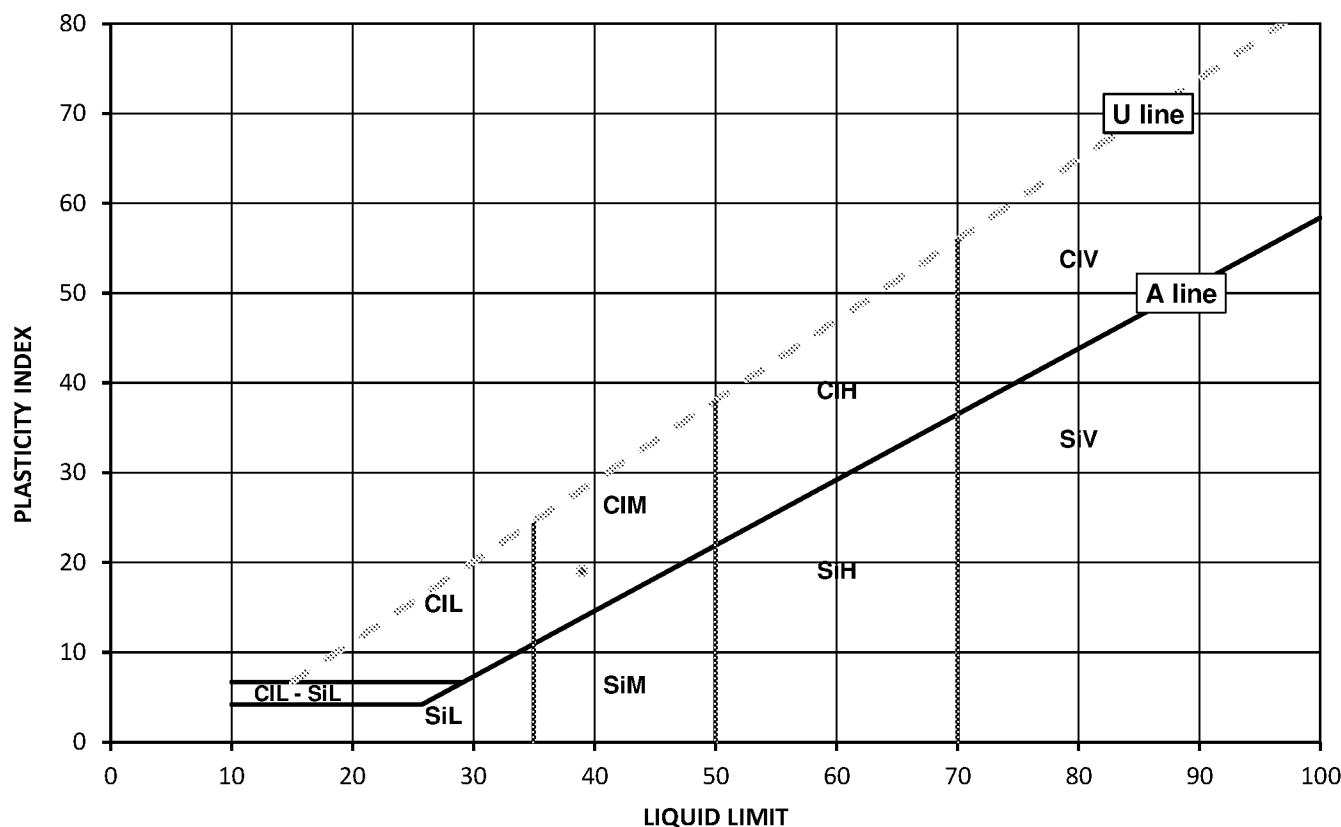
### Test Results:

Laboratory Reference: 1868971  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 20                                   | 39                    | 20                     | 19                        | 99                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

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Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

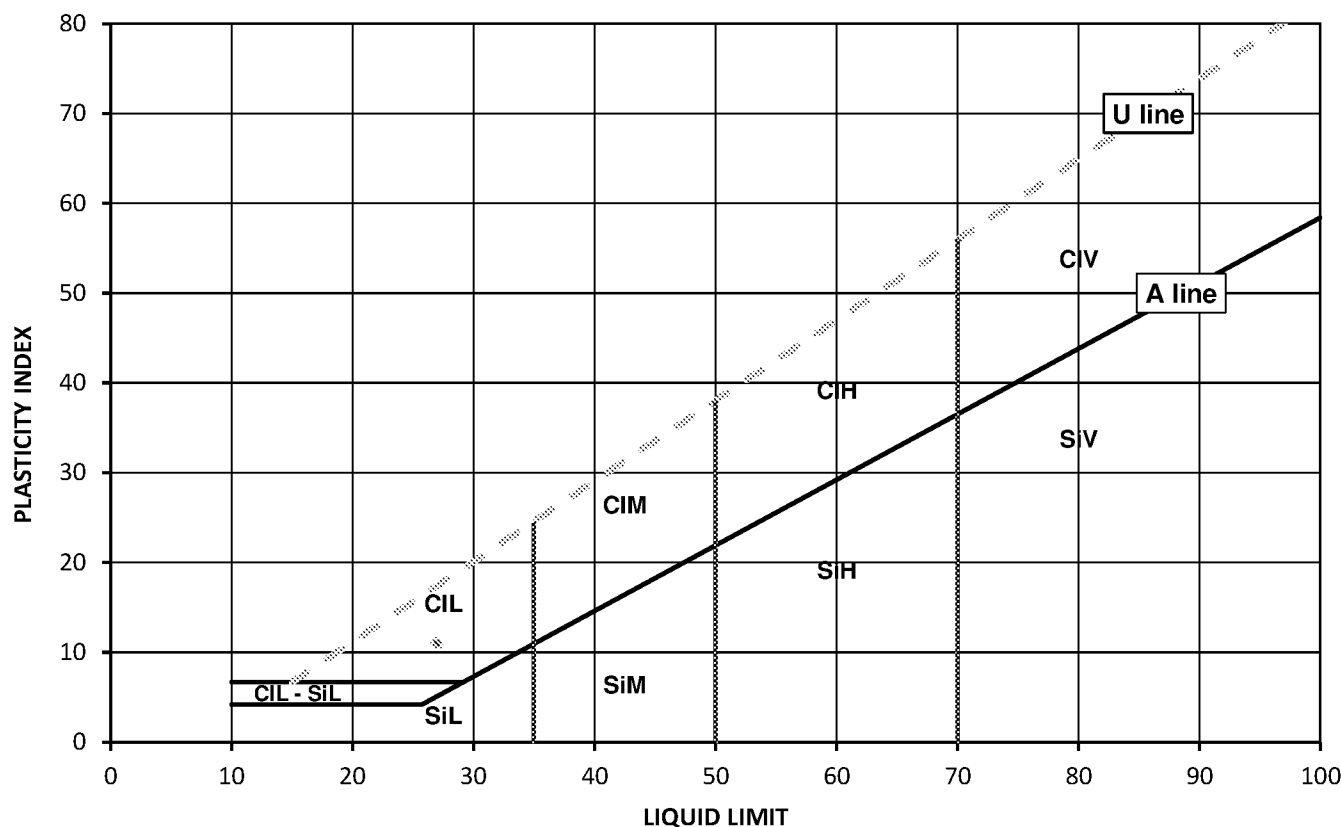
### Test Results:

Laboratory Reference: 1868972  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Soil Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 17                                   | 27                    | 16                     | 11                        | 69                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

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PL Deputy Head of Geotechnical Section  
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Client: Delta-Simons  
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Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: 29/04/2021

Date Received: 04/05/2021

Date Tested: 19/05/2021

Sampled By: Client

### Test Results:

Laboratory Reference: 1868973

Hole No.: TP205-TP206

Sample Reference: B8

Soil Description: Light brown silty CHALK

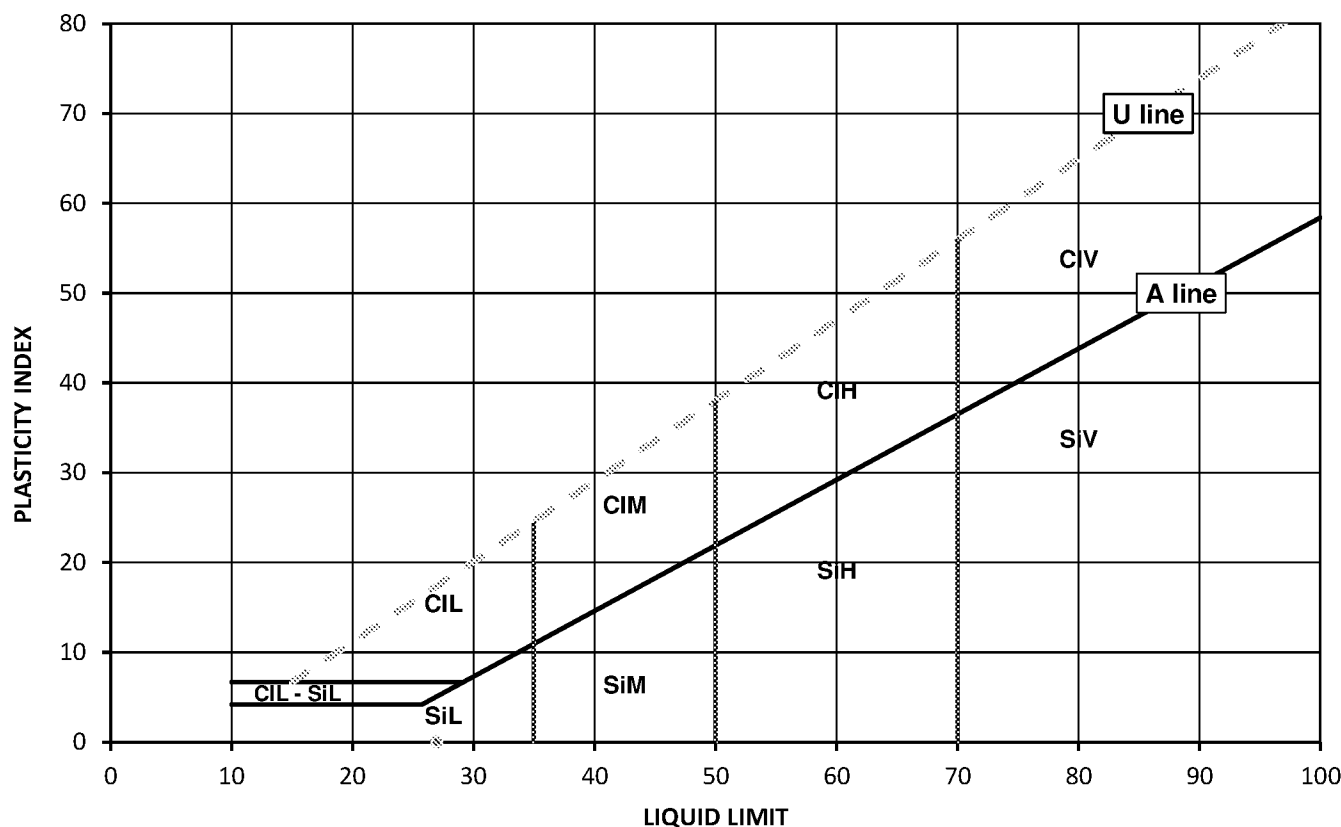
Depth Top [m]: 2.90

Depth Base [m]: 3.00

Sample Type: B

Sample Preparation: Tested after washing to remove >425um

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 27                    | NP                     | NP                        | 42                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    |      | Plasticity |           | Liquid Limit                                              |
|----|------|------------|-----------|-----------------------------------------------------------|
| Cl | Clay | L          | Low       | below 35                                                  |
| Si | Silt | M          | Medium    | 35 to 50                                                  |
|    |      | H          | High      | 50 to 70                                                  |
|    |      | V          | Very high | exceeding 70                                              |
|    |      | O          | Organic   | append to classification for organic material ( eg ClHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

|          |                                                       |
|----------|-------------------------------------------------------|
| Remarks: | NP - non plastic<br>Re-issue 2: Site Address amended. |
|----------|-------------------------------------------------------|

**Signed:**

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
**for and on behalf of i2 Analytical Ltd**

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Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

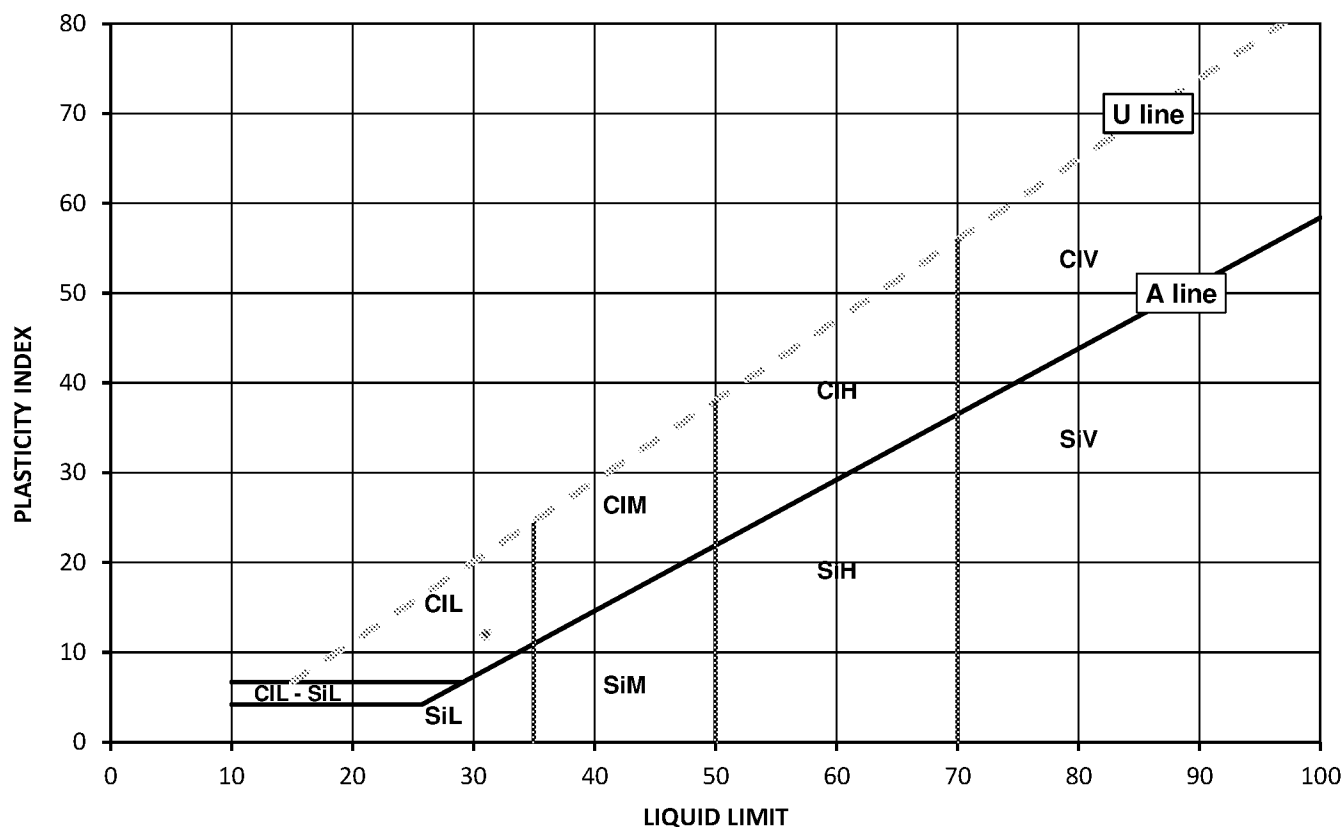
### Test Results:

Laboratory Reference: 1868974  
Hole No.: TP219-TP204  
Sample Reference: B6  
Soil Description: Light brown clayey CHALK

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 23                                   | 31                    | 19                     | 12                        | 41                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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Client Address: Castle Heights, 62-64 Maid Marian Way,  
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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

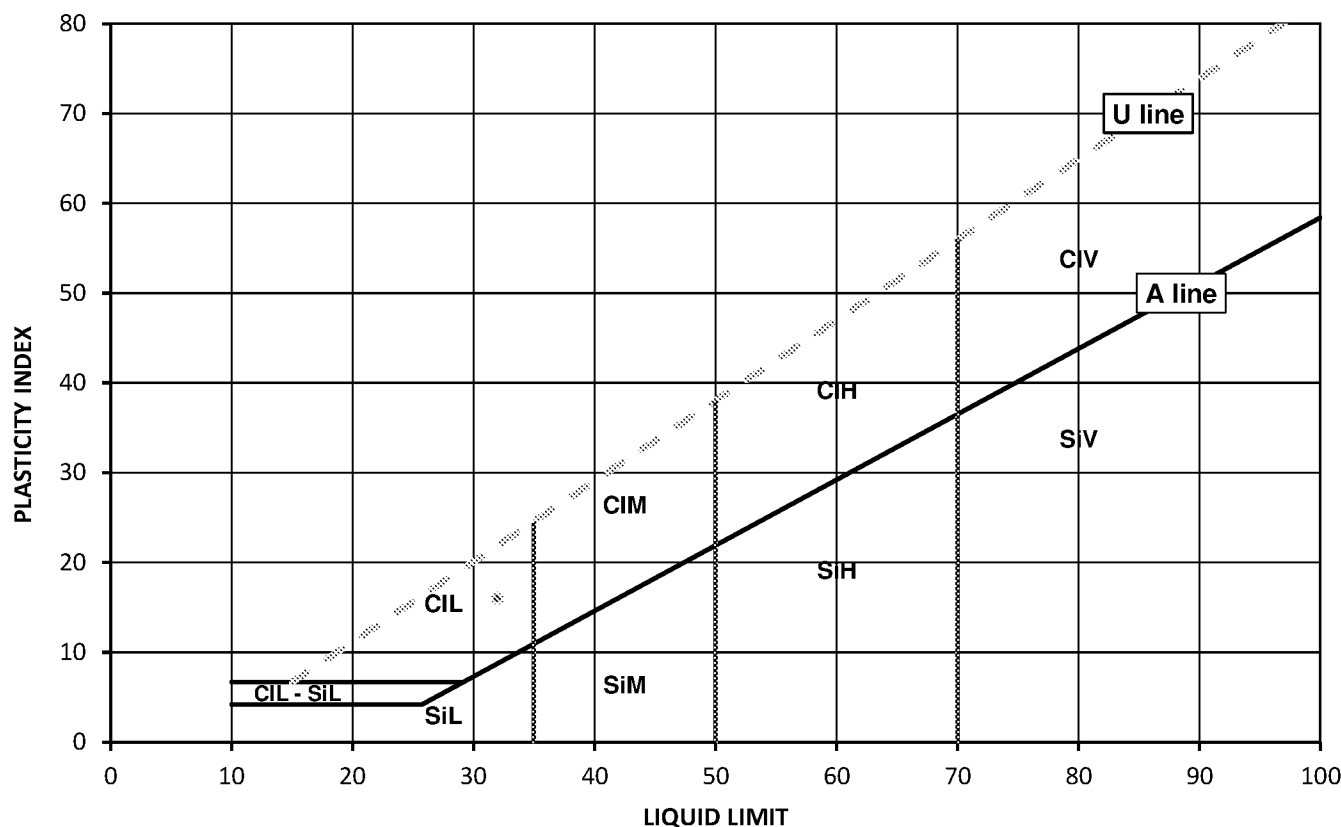
### Test Results:

Laboratory Reference: 1868975  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Soil Description: Brown slightly gravelly clayey very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                   | 32                    | 16                     | 16                        | 91                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      |                                                           |
|    | V Very high |                                                           |
|    | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



# TEST CERTIFICATE

## Liquid and Plastic Limits

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

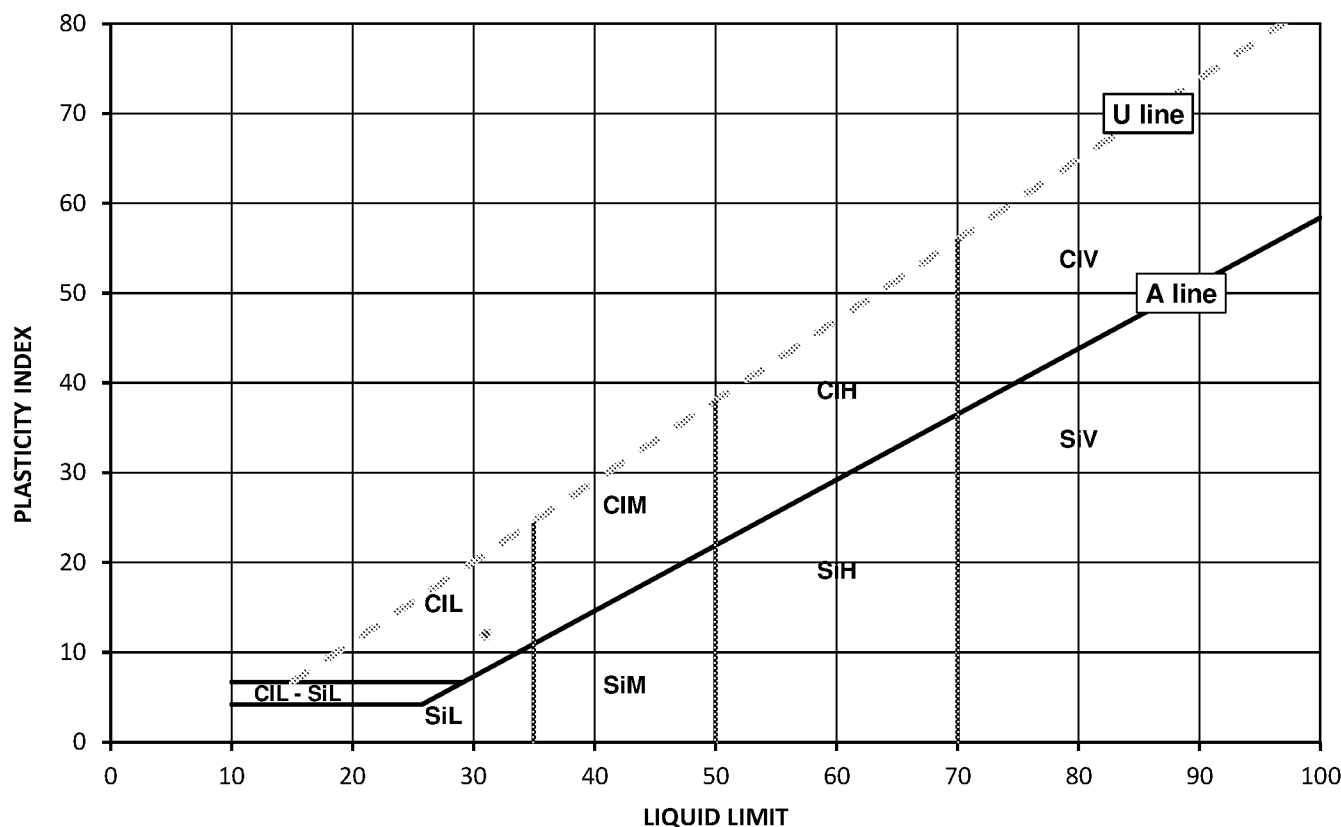
### Test Results:

Laboratory Reference: 1868976  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Soil Description: Light brown clayey very gravelly very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

Sample Preparation: Tested after >425um removed by hand

| As Received Moisture Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|--------------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 17                                   | 31                    | 19                     | 12                        | 69                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity  | Liquid Limit                                              |
|----|-------------|-----------------------------------------------------------|
| Cl | Clay        | below 35                                                  |
| Si | Silt        | 35 to 50                                                  |
|    | L Low       | 50 to 70                                                  |
|    | M Medium    | exceeding 70                                              |
|    | H High      | append to classification for organic material ( eg CIHO ) |
|    | V Very high |                                                           |
|    | O Organic   |                                                           |

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Page 1 of 1

Date Reported: 28/07/2021

GF 236.10



4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: 28/04 - 30/04/2021

Date Received: 04/05/2021

Date Tested: 18/05 - 19/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No.    | Sample    |           |            |      | Description                                                             | Remarks           | Moisture Content [ W ] | Water Content [ W ] | Atterberg       |    |    |    | Density |       |       | Total Porosity# |  |  |
|----------------------|-------------|-----------|-----------|------------|------|-------------------------------------------------------------------------|-------------------|------------------------|---------------------|-----------------|----|----|----|---------|-------|-------|-----------------|--|--|
|                      |             | Reference | Depth Top | Depth Base | Type |                                                                         |                   |                        |                     | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                 |  |  |
|                      |             |           | m         | m          |      |                                                                         |                   | %                      | %                   | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 | %               |  |  |
| 1868955              | TP201       | B4        | 1.00      | 1.20       | B    | Brown slightly gravelly sandy clayey SILT                               | Atterberg 4 Point | 18                     |                     | 97              | 42 | 21 | 21 |         |       |       |                 |  |  |
| 1868963              | TP203       | D7        | 2.00      | Not Given  | D    | Yellowish brown slightly gravelly sandy CLAY                            | Atterberg 4 Point | 17                     |                     | 94              | 36 | 19 | 17 |         |       |       |                 |  |  |
| 1868960              | TP204       | B8        | 2.90      | 3.00       | B    | Cream colour slightly gravelly CHALK                                    | Atterberg 4 Point | 24                     |                     | 95              | 32 | 20 | 12 |         |       |       |                 |  |  |
| 1868958              | TP205       | B4        | 1.00      | 1.20       | B    | Brown gravelly sandy clayey SILT with fragments of chalk                | Atterberg 4 Point | 23                     |                     | 82              | 39 | 20 | 19 |         |       |       |                 |  |  |
| 1868959              | TP205       | B6        | 2.00      | 2.20       | B    | Cream colour sandy silty clayey GRAVEL with fragments of chalk          | Atterberg 4 Point | 21                     |                     | 56              | 29 | NP | NP |         |       |       |                 |  |  |
| 1868973              | TP205-TP206 | B8        | 2.90      | 3.00       | B    | Light brown silty CHALK                                                 | Atterberg 4 Point | 19                     |                     | 42              | 27 | NP | NP |         |       |       |                 |  |  |
| 1868969              | TP209       | B5        | 1.00      | Not Given  | B    | Brown sandy very clayey SILT                                            | Atterberg 4 Point | 21                     |                     | 100             | 38 | 20 | 18 |         |       |       |                 |  |  |
| 1868964              | TP209       | B8        | 2.00      | Not Given  | B    | Light brown sandy clayey very silty GRAVEL with fragments of chalk      | Atterberg 4 Point | 18                     |                     | 48              | 26 | NP | NP |         |       |       |                 |  |  |
| 1868966              | TP209       | B10       | 3.00      | Not Given  | B    | Cream colour sandy clayey very gravelly SILT with fragments of chalk    | Atterberg 4 Point | 19                     |                     | 65              | 28 | NP | NP |         |       |       |                 |  |  |
| 1868961              | TP211       | B5        | 1.00      | 1.20       | B    | Light brown clayey very silty very sandy GRAVEL with fragments of chalk | Atterberg 4 Point | 13                     |                     | 55              | 28 | 16 | 12 |         |       |       |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: Not Given

Date Received: 04/05/2021

Date Tested: 19/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No.    | Sample    |           |            |      | Description                                                         | Remarks           | Moisture Content [ W ] | Water Content [ W ] | Atterberg       |    |    |    | Density |       |       | Total Porosity# |  |  |
|----------------------|-------------|-----------|-----------|------------|------|---------------------------------------------------------------------|-------------------|------------------------|---------------------|-----------------|----|----|----|---------|-------|-------|-----------------|--|--|
|                      |             | Reference | Depth Top | Depth Base | Type |                                                                     |                   |                        |                     | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                 |  |  |
|                      |             |           | m         | m          |      |                                                                     |                   | %                      | %                   | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 | %               |  |  |
| 1868967              | TP211       | B10       | 3.00      | Not Given  | B    | Light brown very sandy very gravelly CLAY with fragments of chalk   | Atterberg 4 Point | 16                     |                     | 57              | 23 | 13 | 10 |         |       |       |                 |  |  |
| 1868976              | TP211-TP207 | B8-B9     | 1.00      | 2.20       | B    | Light brown clayey very gravelly very sandy SILT                    | Atterberg 4 Point | 17                     |                     | 69              | 31 | 19 | 12 |         |       |       |                 |  |  |
| 1868962              | TP212       | B5        | 1.00      | 1.20       | B    | Brown slightly gravelly sandy very clayey SILT                      | Atterberg 4 Point | 20                     |                     | 94              | 43 | 21 | 22 |         |       |       |                 |  |  |
| 1868975              | TP214-TP210 | B5-B6     | 1.00      | 3.00       | B    | Brown slightly gravelly clayey very sandy SILT                      | Atterberg 4 Point | 19                     |                     | 91              | 32 | 16 | 16 |         |       |       |                 |  |  |
| 1868956              | TP217       | B4        | 1.00      | 1.20       | B    | Brown slightly sandy clayey SILT                                    | Atterberg 4 Point | 19                     |                     | 100             | 41 | 22 | 19 |         |       |       |                 |  |  |
| 1868970              | TP217-TP201 | B6-B8     | 1.00      | 3.00       | B    | Brown gravelly sandy clayey SILT with fragments of flintstone       | Atterberg 4 Point | 19                     |                     | 86              | 44 | 20 | 24 |         |       |       |                 |  |  |
| 1868965              | TP218       | B4        | 1.00      | Not Given  | B    | Brown sandy very clayey SILT                                        | Atterberg 4 Point | 22                     |                     | 100             | 44 | 19 | 25 |         |       |       |                 |  |  |
| 1868957              | TP218       | B9        | 3.00      | Not Given  | B    | Light brown gravelly clayey very sandy SILT with fragments of chalk | Atterberg 4 Point | 17                     |                     | 87              | 26 | 15 | 11 |         |       |       |                 |  |  |
| 1868971              | TP219-TP203 | B4-B6     | 1.00      | 2.20       | B    | Brown slightly gravelly sandy very clayey SILT                      | Atterberg 4 Point | 20                     |                     | 99              | 39 | 20 | 19 |         |       |       |                 |  |  |
| 1868974              | TP219-TP204 | B6        | 2.00      | 2.20       | B    | Light brown clayey CHALK                                            | Atterberg 4 Point | 23                     |                     | 41              | 31 | 19 | 12 |         |       |       |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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4041

Client: Delta-Simons

Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James

Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

## SUMMARY REPORT

### Summary of Classification Test Results

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN  
17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),  
Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: Not Given

Date Received: 04/05/2021

Date Tested: 19/05/2021

Sampled By: Client

### Test results

| Laboratory Reference | Hole No.    | Sample    |           |            |      | Description                                                              | Remarks           | Moisture Content [ W ] | Water Content [ W ] | Atterberg       |    |    |    | Density |       |       | Total Porosity# |  |  |
|----------------------|-------------|-----------|-----------|------------|------|--------------------------------------------------------------------------|-------------------|------------------------|---------------------|-----------------|----|----|----|---------|-------|-------|-----------------|--|--|
|                      |             | Reference | Depth Top | Depth Base | Type |                                                                          |                   |                        |                     | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                 |  |  |
|                      |             |           | m         | m          |      |                                                                          |                   | %                      | %                   | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 | %               |  |  |
| 1868968              | TP220       | B6        | 2.00      | Not Given  | B    | Light brown slightly gravelly very sandy CLAY with fragments of chalk    | Atterberg 4 Point | 17                     |                     | 91              | 27 | 16 | 11 |         |       |       |                 |  |  |
| 1868972              | TP220-TP206 | B4-B6     | 1.00      | 2.20       | B    | Light brown clayey very gravelly very sandy SILT with fragments of chalk | Atterberg 4 Point | 17                     |                     | 69              | 27 | 16 | 11 |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |
|                      |             |           |           |            |      |                                                                          |                   |                        |                     |                 |    |    |    |         |       |       |                 |  |  |

Note: # Non accredited; NP - Non plastic

Comments: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

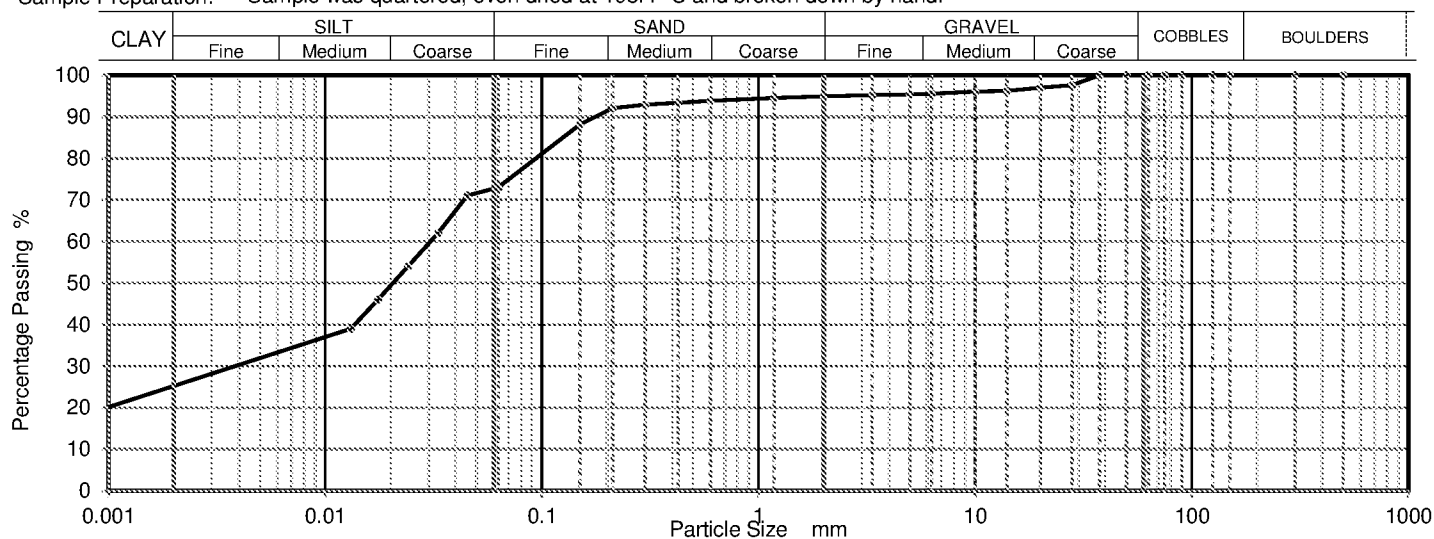
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868955  
Hole No.: TP201  
Sample Reference: B4  
Sample Description: Brown slightly gravelly sandy clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation                            |           |
|------------------|-----------|------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                         | % Passing |
| 500              | 100       | 0.0634                                   | 73        |
| 300              | 100       | 0.0452                                   | 71        |
| 150              | 100       | 0.0331                                   | 62        |
| 125              | 100       | 0.0241                                   | 54        |
| 90               | 100       | 0.0175                                   | 46        |
| 75               | 100       | 0.0131                                   | 39        |
| 63               | 100       | 0.009                                    | 19        |
| 50               | 100       |                                          |           |
| 37.5             | 100       |                                          |           |
| 28               | 98        |                                          |           |
| 20               | 97        |                                          |           |
| 14               | 96        |                                          |           |
| 10               | 96        |                                          |           |
| 6.3              | 96        |                                          |           |
| 5                | 95        |                                          |           |
| 3.35             | 95        | Particle density (assumed)<br>2.65 Mg/m3 |           |
| 2                | 95        |                                          |           |
| 1.18             | 95        |                                          |           |
| 0.6              | 94        |                                          |           |
| 0.425            | 93        |                                          |           |
| 0.3              | 93        |                                          |           |
| 0.212            | 92        |                                          |           |
| 0.15             | 88        |                                          |           |
| 0.063            | 73        |                                          |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 5          |
| Sand               | 21         |
| Silt               | 49         |
| Clay               | 25         |

| Grading Analysis       |            |
|------------------------|------------|
| D100                   | mm 37.5    |
| D60                    | mm 0.0308  |
| D30                    | mm 0.00386 |
| D10                    | mm         |
| Uniformity Coefficient | > 36       |
| Curvature Coefficient  |            |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

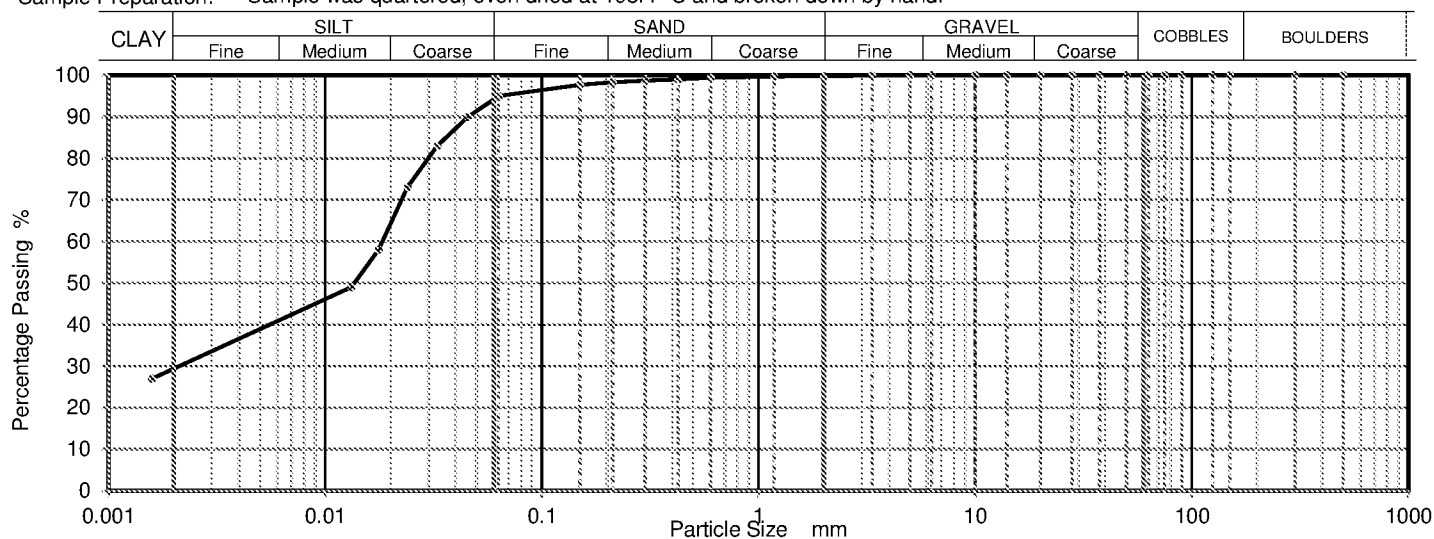
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868956  
Hole No.: TP217  
Sample Reference: B4  
Sample Description: Brown slightly sandy clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation                            |           |
|------------------|-----------|------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                         | % Passing |
| 500              | 100       | 0.0633                                   | 95        |
| 300              | 100       | 0.0455                                   | 90        |
| 150              | 100       | 0.0329                                   | 83        |
| 125              | 100       | 0.0239                                   | 73        |
| 90               | 100       | 0.0176                                   | 58        |
| 75               | 100       | 0.0132                                   | 49        |
| 63               | 100       | 0.0016                                   | 27        |
| 50               | 100       |                                          |           |
| 37.5             | 100       |                                          |           |
| 28               | 100       |                                          |           |
| 20               | 100       |                                          |           |
| 14               | 100       |                                          |           |
| 10               | 100       |                                          |           |
| 6.3              | 100       |                                          |           |
| 5                | 100       |                                          |           |
| 3.35             | 100       | Particle density (assumed)<br>2.65 Mg/m3 |           |
| 2                | 100       |                                          |           |
| 1.18             | 100       |                                          |           |
| 0.6              | 99        |                                          |           |
| 0.425            | 99        |                                          |           |
| 0.3              | 99        |                                          |           |
| 0.212            | 98        |                                          |           |
| 0.15             | 98        |                                          |           |
| 0.063            | 95        |                                          |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 0          |
| Sand               | 5          |
| Silt               | 66         |
| Clay               | 29         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 11 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

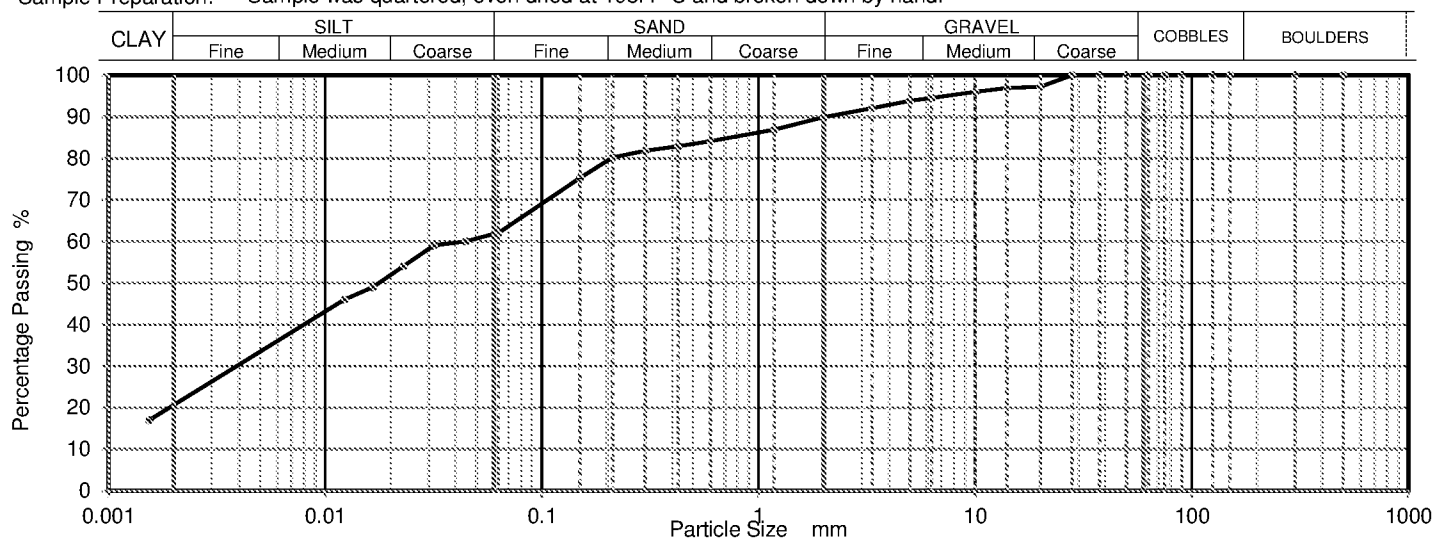
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868957  
Hole No.: TP218  
Sample Reference: B9  
Sample Description: Light brown gravelly clayey very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0624                                               | 62        |
| 300              | 100       | 0.0445                                               | 60        |
| 150              | 100       | 0.0317                                               | 59        |
| 125              | 100       | 0.0229                                               | 54        |
| 90               | 100       | 0.0166                                               | 49        |
| 75               | 100       | 0.0123                                               | 46        |
| 63               | 100       | 0.0015                                               | 17        |
| 50               | 100       |                                                      |           |
| 37.5             | 100       |                                                      |           |
| 28               | 100       |                                                      |           |
| 20               | 97        |                                                      |           |
| 14               | 97        |                                                      |           |
| 10               | 96        |                                                      |           |
| 6.3              | 95        |                                                      |           |
| 5                | 94        |                                                      |           |
| 3.35             | 92        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 90        |                                                      |           |
| 1.18             | 87        |                                                      |           |
| 0.6              | 84        |                                                      |           |
| 0.425            | 83        |                                                      |           |
| 0.3              | 82        |                                                      |           |
| 0.212            | 80        |                                                      |           |
| 0.15             | 75        |                                                      |           |
| 0.063            | 62        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 10         |
| Sand               | 28         |
| Silt               | 41         |
| Clay               | 21         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 29 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

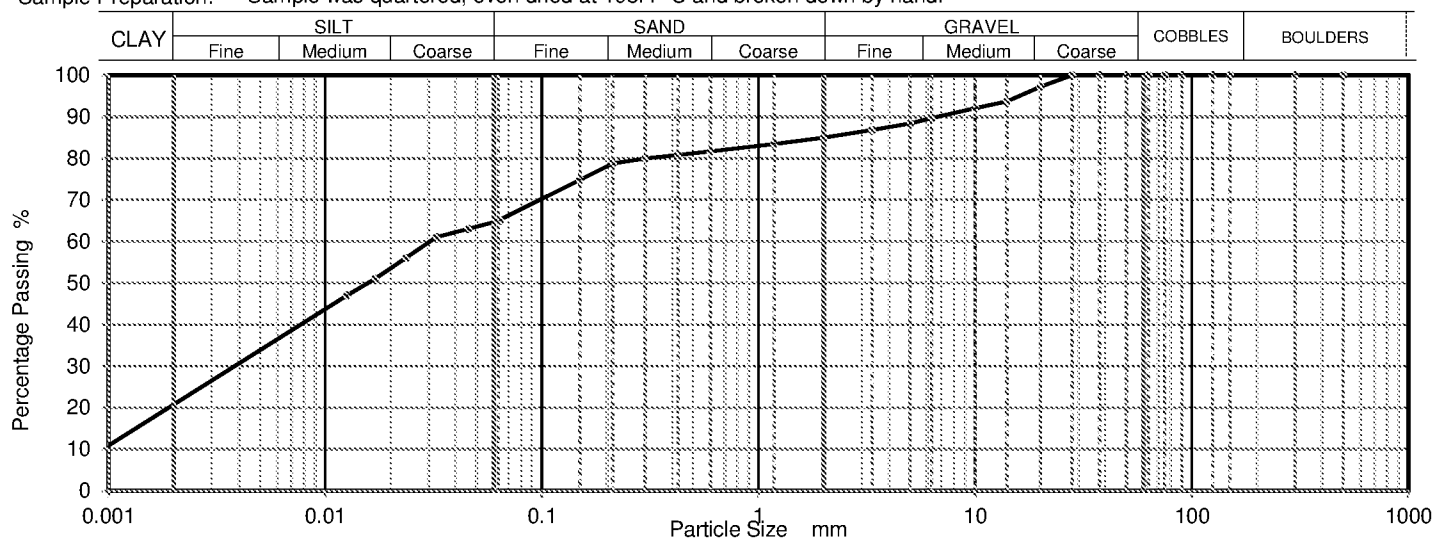
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868958  
Hole No.: TP205  
Sample Reference: B4  
Sample Description: Brown gravelly sandy clayey SILT with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0641                                               | 65        |
| 300              | 100       | 0.0457                                               | 63        |
| 150              | 100       | 0.0325                                               | 61        |
| 125              | 100       | 0.0235                                               | 56        |
| 90               | 100       | 0.0170                                               | 51        |
| 75               | 100       | 0.0126                                               | 47        |
| 63               | 100       | 0.009                                                | 9         |
| 50               | 100       |                                                      |           |
| 37.5             | 100       |                                                      |           |
| 28               | 100       |                                                      |           |
| 20               | 97        |                                                      |           |
| 14               | 94        |                                                      |           |
| 10               | 92        |                                                      |           |
| 6.3              | 90        |                                                      |           |
| 5                | 88        |                                                      |           |
| 3.35             | 87        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 85        |                                                      |           |
| 1.18             | 83        |                                                      |           |
| 0.6              | 82        |                                                      |           |
| 0.425            | 81        |                                                      |           |
| 0.3              | 80        |                                                      |           |
| 0.212            | 79        |                                                      |           |
| 0.15             | 75        |                                                      |           |
| 0.063            | 65        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 15         |
| Sand               | 20         |
| Silt               | 44         |
| Clay               | 21         |

| Grading Analysis       |    |
|------------------------|----|
| D100                   | mm |
| D60                    | mm |
| D30                    | mm |
| D10                    | mm |
| Uniformity Coefficient |    |
| Curvature Coefficient  |    |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

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Grzegorz Bielawicz  
Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

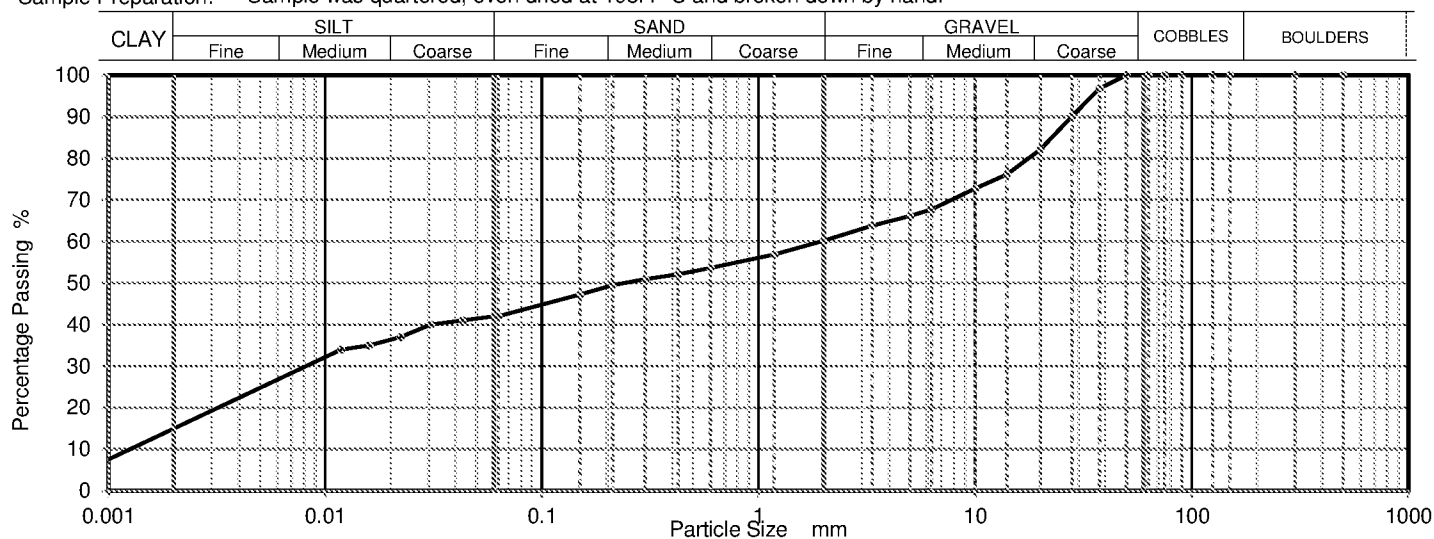
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868959  
Hole No.: TP205  
Sample Reference: B6  
Sample Description: Cream colour sandy silty clayey GRAVEL with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0603                                               | 42        |
| 300              | 100       | 0.0430                                               | 41        |
| 150              | 100       | 0.0307                                               | 40        |
| 125              | 100       | 0.0222                                               | 37        |
| 90               | 100       | 0.0160                                               | 35        |
| 75               | 100       | 0.0118                                               | 34        |
| 63               | 100       | 0.009                                                | 6         |
| 50               | 100       |                                                      |           |
| 37.5             | 97        |                                                      |           |
| 28               | 90        |                                                      |           |
| 20               | 82        |                                                      |           |
| 14               | 76        |                                                      |           |
| 10               | 73        |                                                      |           |
| 6.3              | 68        |                                                      |           |
| 5                | 66        |                                                      |           |
| 3.35             | 64        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 60        |                                                      |           |
| 1.18             | 57        |                                                      |           |
| 0.6              | 54        |                                                      |           |
| 0.425            | 52        |                                                      |           |
| 0.3              | 51        |                                                      |           |
| 0.212            | 50        |                                                      |           |
| 0.15             | 47        |                                                      |           |
| 0.063            | 42        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 40         |
| Sand               | 18         |
| Silt               | 27         |
| Clay               | 15         |

| Grading Analysis       |       |
|------------------------|-------|
| D100                   | mm    |
| D60                    | mm    |
| D30                    | mm    |
| D10                    | mm    |
| Uniformity Coefficient | 1500  |
| Curvature Coefficient  | 0.029 |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

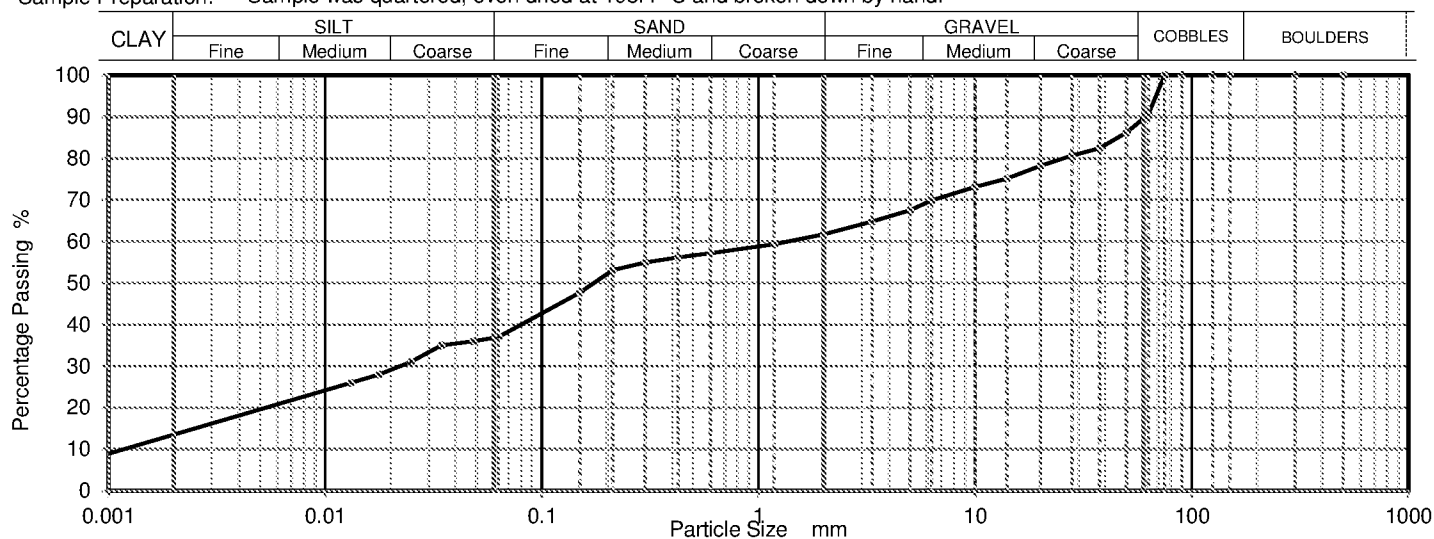
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868961  
Hole No.: TP211  
Sample Reference: B5  
Sample Description: Light brown clayey very silty very sandy GRAVEL with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0630                                               | 37        |
| 300              | 100       | 0.0482                                               | 36        |
| 150              | 100       | 0.0343                                               | 35        |
| 125              | 100       | 0.0247                                               | 31        |
| 90               | 100       | 0.0177                                               | 28        |
| 75               | 100       | 0.0131                                               | 26        |
| 63               | 91        | 0.009                                                | 8         |
| 50               | 86        |                                                      |           |
| 37.5             | 82        |                                                      |           |
| 28               | 81        |                                                      |           |
| 20               | 78        |                                                      |           |
| 14               | 75        |                                                      |           |
| 10               | 73        |                                                      |           |
| 6.3              | 70        |                                                      |           |
| 5                | 68        |                                                      |           |
| 3.35             | 65        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 62        |                                                      |           |
| 1.18             | 59        |                                                      |           |
| 0.6              | 57        |                                                      |           |
| 0.425            | 56        |                                                      |           |
| 0.3              | 55        |                                                      |           |
| 0.212            | 53        |                                                      |           |
| 0.15             | 48        |                                                      |           |
| 0.063            | 37        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 9          |
| Gravel             | 29         |
| Sand               | 24         |
| Silt               | 25         |
| Clay               | 13         |

| Grading Analysis       |            |
|------------------------|------------|
| D100                   | mm 75      |
| D60                    | mm 1.36    |
| D30                    | mm 0.0221  |
| D10                    | mm 0.00123 |
| Uniformity Coefficient | 1100       |
| Curvature Coefficient  | 0.29       |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3  
Re-issue 2: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

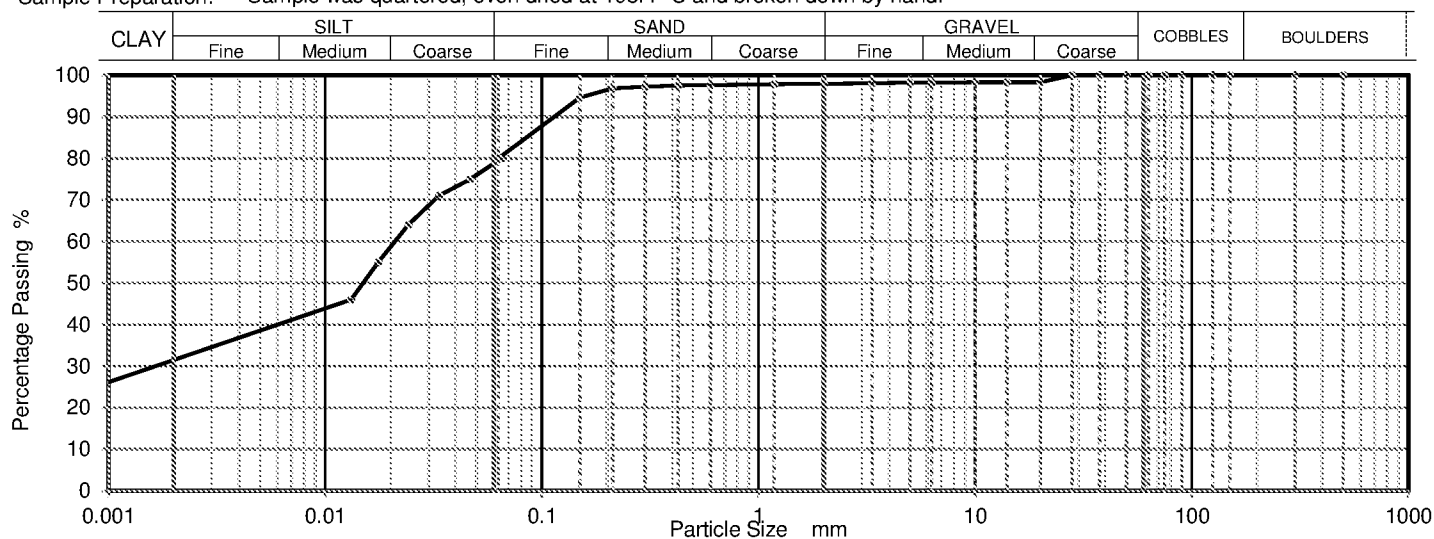
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868962  
Hole No.: TP212  
Sample Reference: B5  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0651                                               | 80        |
| 300              | 100       | 0.0467                                               | 75        |
| 150              | 100       | 0.0335                                               | 71        |
| 125              | 100       | 0.0242                                               | 64        |
| 90               | 100       | 0.0176                                               | 55        |
| 75               | 100       | 0.0132                                               | 46        |
| 63               | 100       | 0.009                                                | 25        |
| 50               | 100       |                                                      |           |
| 37.5             | 100       |                                                      |           |
| 28               | 100       |                                                      |           |
| 20               | 98        |                                                      |           |
| 14               | 98        |                                                      |           |
| 10               | 98        |                                                      |           |
| 6.3              | 98        |                                                      |           |
| 5                | 98        |                                                      |           |
| 3.35             | 98        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 98        |                                                      |           |
| 1.18             | 98        |                                                      |           |
| 0.6              | 98        |                                                      |           |
| 0.425            | 98        |                                                      |           |
| 0.3              | 97        |                                                      |           |
| 0.212            | 97        |                                                      |           |
| 0.15             | 95        |                                                      |           |
| 0.063            | 80        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 2          |
| Sand               | 18         |
| Silt               | 49         |
| Clay               | 31         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 25 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

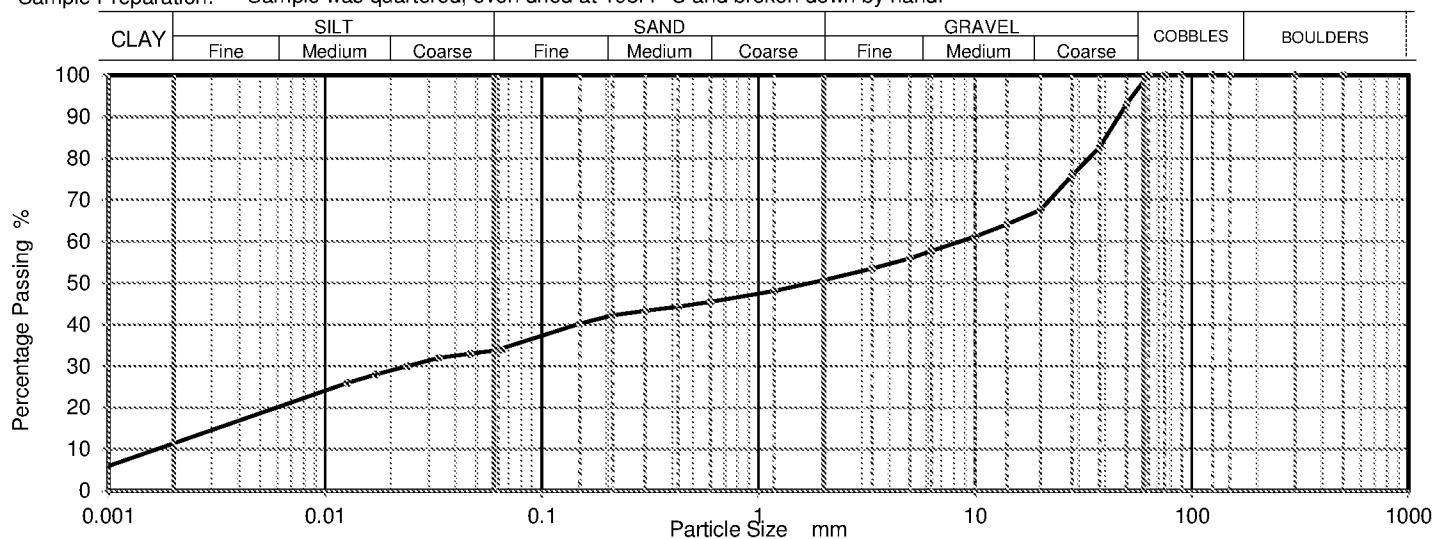
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868964  
Hole No.: TP209  
Sample Reference: B8  
Sample Description: Light brown sandy clayey very silty GRAVEL with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0656                                               | 34        |
| 300              | 100       | 0.0467                                               | 33        |
| 150              | 100       | 0.0333                                               | 32        |
| 125              | 100       | 0.0239                                               | 30        |
| 90               | 100       | 0.0171                                               | 28        |
| 75               | 100       | 0.0127                                               | 26        |
| 63               | 100       | 0.009                                                | 5         |
| 50               | 93        |                                                      |           |
| 37.5             | 83        |                                                      |           |
| 28               | 76        |                                                      |           |
| 20               | 68        |                                                      |           |
| 14               | 64        |                                                      |           |
| 10               | 61        |                                                      |           |
| 6.3              | 58        |                                                      |           |
| 5                | 56        |                                                      |           |
| 3.35             | 54        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 51        |                                                      |           |
| 1.18             | 48        |                                                      |           |
| 0.6              | 46        |                                                      |           |
| 0.425            | 44        |                                                      |           |
| 0.3              | 43        |                                                      |           |
| 0.212            | 42        |                                                      |           |
| 0.15             | 40        |                                                      |           |
| 0.063            | 34        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 49         |
| Sand               | 17         |
| Silt               | 23         |
| Clay               | 11         |

| Grading Analysis       |            |
|------------------------|------------|
| D100                   | mm 63      |
| D60                    | mm 8.56    |
| D30                    | mm 0.0235  |
| D10                    | mm 0.00166 |
| Uniformity Coefficient | 5200       |
| Curvature Coefficient  | 0.039      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 100.20



# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

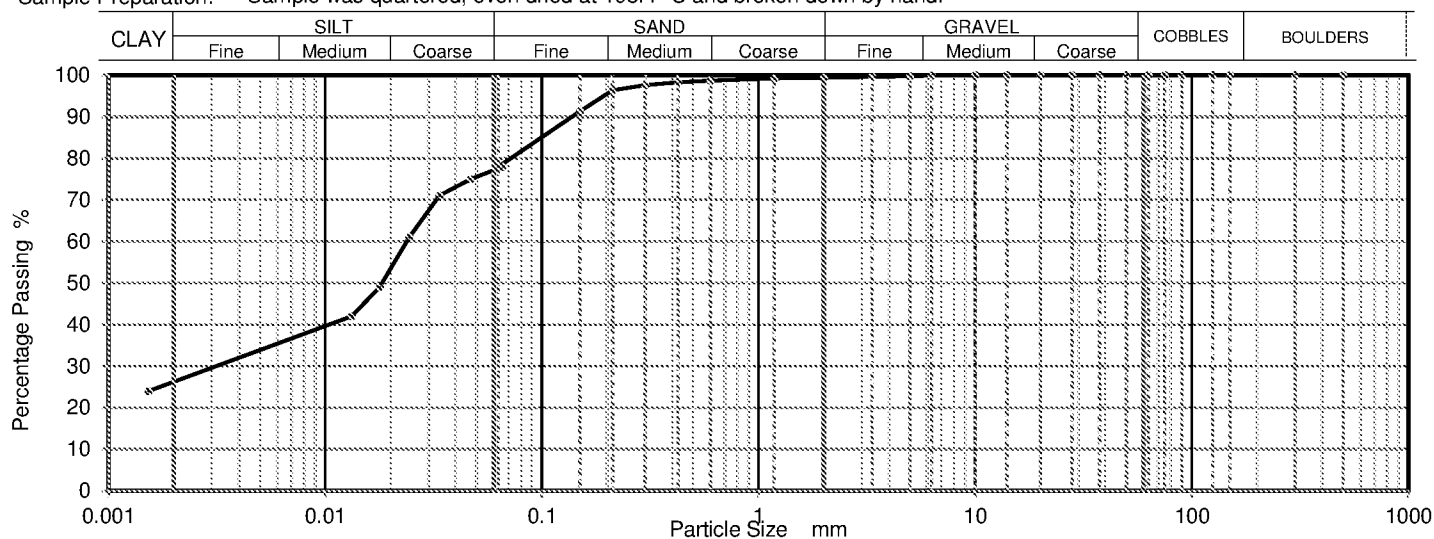
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868965  
Hole No.: TP218  
Sample Reference: B4  
Sample Description: Brown sandy very clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0658                                               | 78        |
| 300              | 100       | 0.0469                                               | 75        |
| 150              | 100       | 0.0336                                               | 71        |
| 125              | 100       | 0.0244                                               | 61        |
| 90               | 100       | 0.0178                                               | 49        |
| 75               | 100       | 0.0133                                               | 42        |
| 63               | 100       | 0.0105                                               | 35        |
| 50               | 100       | 0.0075                                               | 24        |
| 37.5             | 100       |                                                      |           |
| 28               | 100       |                                                      |           |
| 20               | 100       |                                                      |           |
| 14               | 100       |                                                      |           |
| 10               | 100       |                                                      |           |
| 6.3              | 100       |                                                      |           |
| 5                | 100       |                                                      |           |
| 3.35             | 100       | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 99        |                                                      |           |
| 1.18             | 99        |                                                      |           |
| 0.6              | 99        |                                                      |           |
| 0.425            | 98        |                                                      |           |
| 0.3              | 98        |                                                      |           |
| 0.212            | 96        |                                                      |           |
| 0.15             | 91        |                                                      |           |
| 0.063            | 78        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 1          |
| Sand               | 22         |
| Silt               | 51         |
| Clay               | 26         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 15 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

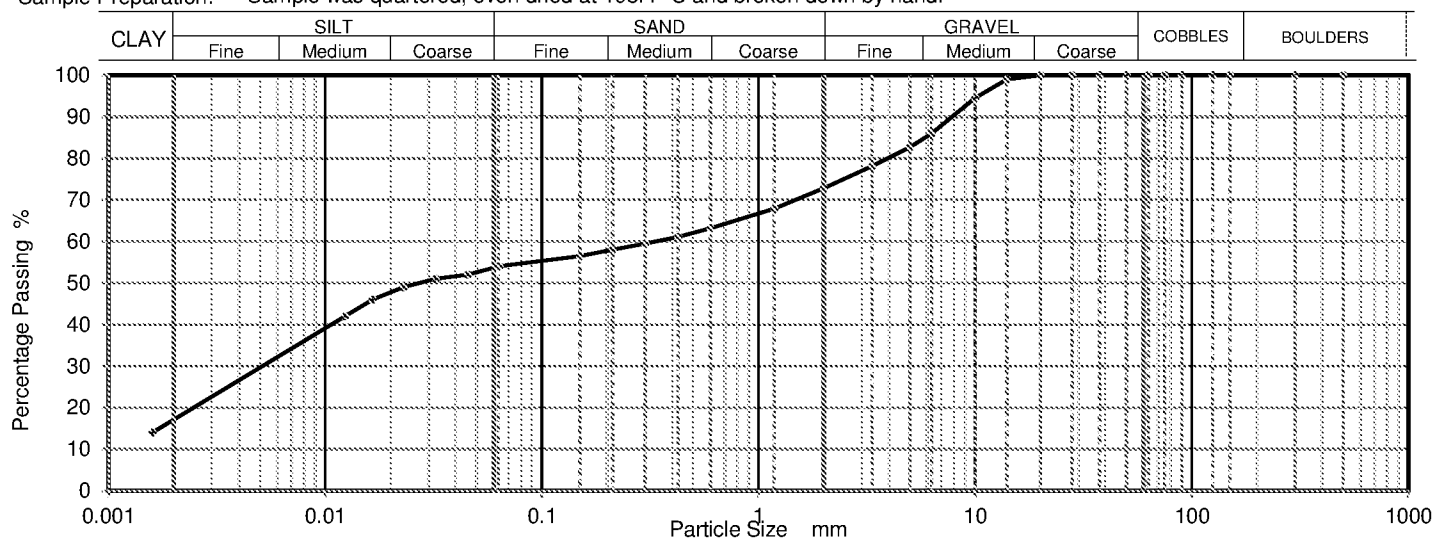
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868966  
Hole No.: TP209  
Sample Reference: B10  
Sample Description: Cream colour sandy clayey very gravelly SILT with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                            |           |
|------------------|-----------|------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                         | % Passing |
| 500              | 100       | 0.0636                                   | 54        |
| 300              | 100       | 0.0453                                   | 52        |
| 150              | 100       | 0.0323                                   | 51        |
| 125              | 100       | 0.0230                                   | 49        |
| 90               | 100       | 0.0165                                   | 46        |
| 75               | 100       | 0.0123                                   | 42        |
| 63               | 100       | 0.0016                                   | 14        |
| 50               | 100       |                                          |           |
| 37.5             | 100       |                                          |           |
| 28               | 100       |                                          |           |
| 20               | 100       |                                          |           |
| 14               | 99        |                                          |           |
| 10               | 95        |                                          |           |
| 6.3              | 86        |                                          |           |
| 5                | 83        |                                          |           |
| 3.35             | 78        | Particle density (assumed)<br>2.65 Mg/m3 |           |
| 2                | 73        |                                          |           |
| 1.18             | 68        |                                          |           |
| 0.6              | 63        |                                          |           |
| 0.425            | 61        |                                          |           |
| 0.3              | 60        |                                          |           |
| 0.212            | 58        |                                          |           |
| 0.15             | 57        |                                          |           |
| 0.063            | 54        |                                          |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 27         |
| Sand               | 19         |
| Silt               | 37         |
| Clay               | 17         |

| Grading Analysis       |       |
|------------------------|-------|
| D100                   | mm    |
| D60                    | mm    |
| D30                    | mm    |
| D10                    | mm    |
| Uniformity Coefficient | > 210 |
| Curvature Coefficient  |       |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

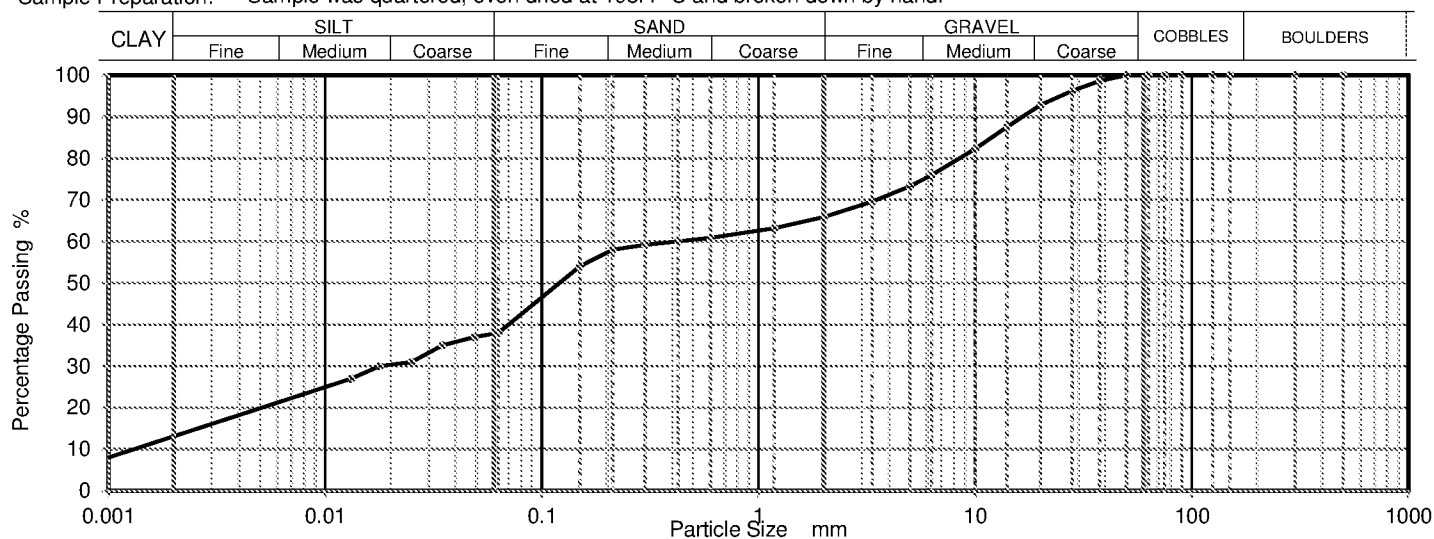
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868967  
Hole No.: TP211  
Sample Reference: B10  
Sample Description: Light brown very sandy very gravelly CLAY with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0630                                               | 38        |
| 300              | 100       | 0.0488                                               | 37        |
| 150              | 100       | 0.0347                                               | 35        |
| 125              | 100       | 0.0250                                               | 31        |
| 90               | 100       | 0.0178                                               | 30        |
| 75               | 100       | 0.0132                                               | 27        |
| 63               | 100       | 0.009                                                | 7         |
| 50               | 100       |                                                      |           |
| 37.5             | 99        |                                                      |           |
| 28               | 96        |                                                      |           |
| 20               | 93        |                                                      |           |
| 14               | 88        |                                                      |           |
| 10               | 82        |                                                      |           |
| 6.3              | 76        |                                                      |           |
| 5                | 73        |                                                      |           |
| 3.35             | 70        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 66        |                                                      |           |
| 1.18             | 63        |                                                      |           |
| 0.6              | 61        |                                                      |           |
| 0.425            | 60        |                                                      |           |
| 0.3              | 59        |                                                      |           |
| 0.212            | 58        |                                                      |           |
| 0.15             | 54        |                                                      |           |
| 0.063            | 38        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 34         |
| Sand               | 28         |
| Silt               | 25         |
| Clay               | 13         |

| Grading Analysis       |    |
|------------------------|----|
| D100                   | mm |
| D60                    | mm |
| D30                    | mm |
| D10                    | mm |
| Uniformity Coefficient |    |
| Curvature Coefficient  |    |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

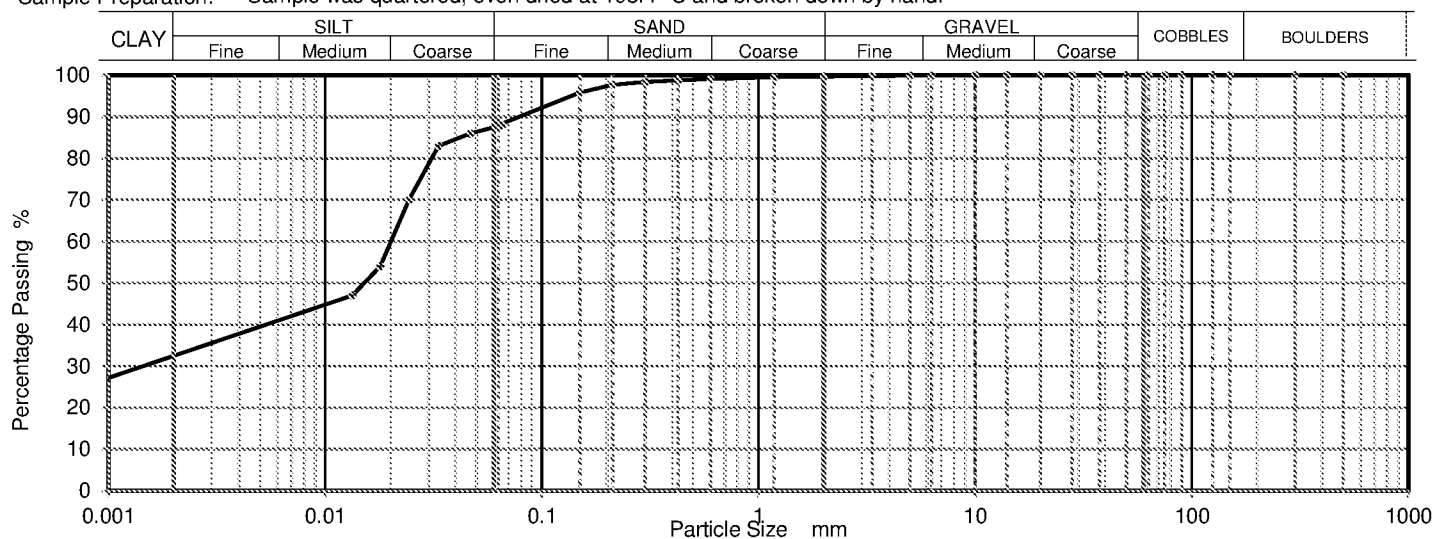
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868969  
Hole No.: TP209  
Sample Reference: B5  
Sample Description: Brown sandy very clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 108.4 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation                            |           |
|------------------|-----------|------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                         | % Passing |
| 500              | 100       | 0.0656                                   | 88        |
| 300              | 100       | 0.0467                                   | 86        |
| 150              | 100       | 0.0333                                   | 83        |
| 125              | 100       | 0.0244                                   | 70        |
| 90               | 100       | 0.0179                                   | 54        |
| 75               | 100       | 0.0133                                   | 47        |
| 63               | 100       | 0.009                                    | 26        |
| 50               | 100       |                                          |           |
| 37.5             | 100       |                                          |           |
| 28               | 100       |                                          |           |
| 20               | 100       |                                          |           |
| 14               | 100       |                                          |           |
| 10               | 100       |                                          |           |
| 6.3              | 100       |                                          |           |
| 5                | 100       |                                          |           |
| 3.35             | 100       | Particle density (assumed)<br>2.65 Mg/m3 |           |
| 2                | 100       |                                          |           |
| 1.18             | 100       |                                          |           |
| 0.6              | 99        |                                          |           |
| 0.425            | 99        |                                          |           |
| 0.3              | 98        |                                          |           |
| 0.212            | 98        |                                          |           |
| 0.15             | 96        |                                          |           |
| 0.063            | 88        |                                          |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 0          |
| Sand               | 11         |
| Silt               | 57         |
| Clay               | 32         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 23 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:



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PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

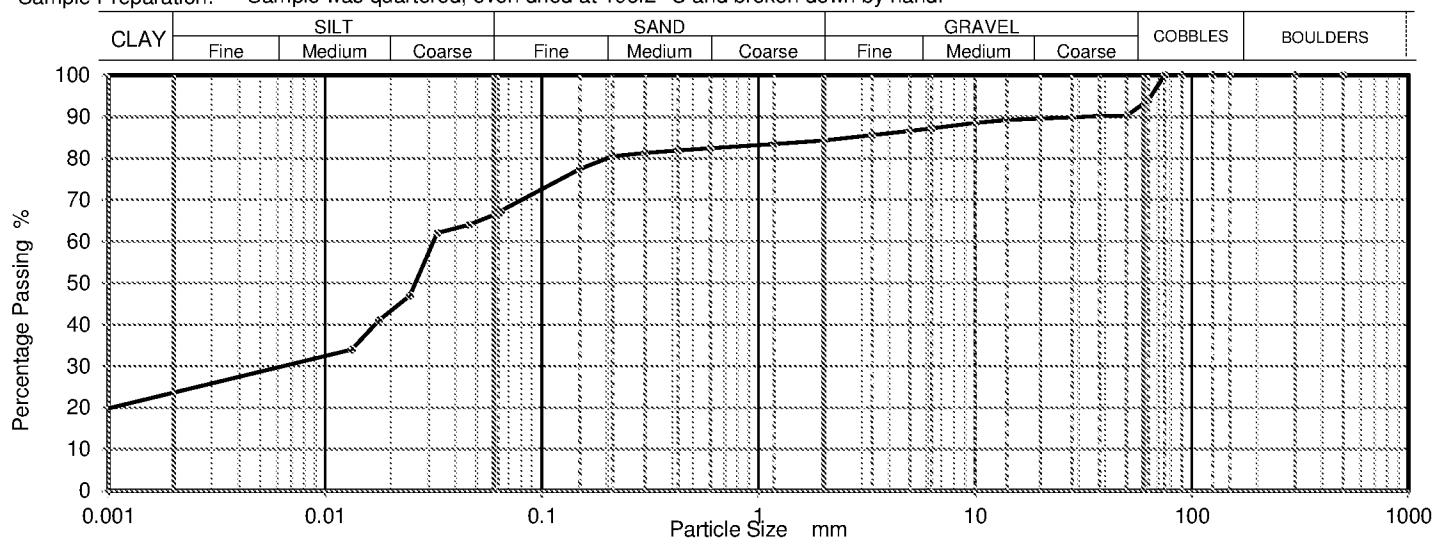
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868970  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Sample Description: Brown gravelly sandy clayey SILT with fragments of flintstone  
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0644                                               | 67        |
| 300              | 100       | 0.0462                                               | 64        |
| 150              | 100       | 0.0329                                               | 62        |
| 125              | 100       | 0.0246                                               | 47        |
| 90               | 100       | 0.0177                                               | 41        |
| 75               | 100       | 0.0133                                               | 34        |
| 63               | 94        | 0.009                                                | 19        |
| 50               | 90        |                                                      |           |
| 37.5             | 90        |                                                      |           |
| 28               | 90        |                                                      |           |
| 20               | 90        |                                                      |           |
| 14               | 89        |                                                      |           |
| 10               | 89        |                                                      |           |
| 6.3              | 87        |                                                      |           |
| 5                | 87        |                                                      |           |
| 3.35             | 86        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 84        |                                                      |           |
| 1.18             | 83        |                                                      |           |
| 0.6              | 82        |                                                      |           |
| 0.425            | 82        |                                                      |           |
| 0.3              | 81        |                                                      |           |
| 0.212            | 81        |                                                      |           |
| 0.15             | 77        |                                                      |           |
| 0.063            | 67        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 6          |
| Gravel             | 10         |
| Sand               | 17         |
| Silt               | 44         |
| Clay               | 23         |

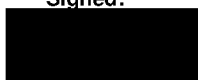
| Grading Analysis       |            |
|------------------------|------------|
| D100                   | mm 75      |
| D60                    | mm 0.0318  |
| D30                    | mm 0.00674 |
| D10                    | mm         |
| Uniformity Coefficient | > 37       |
| Curvature Coefficient  |            |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:



Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

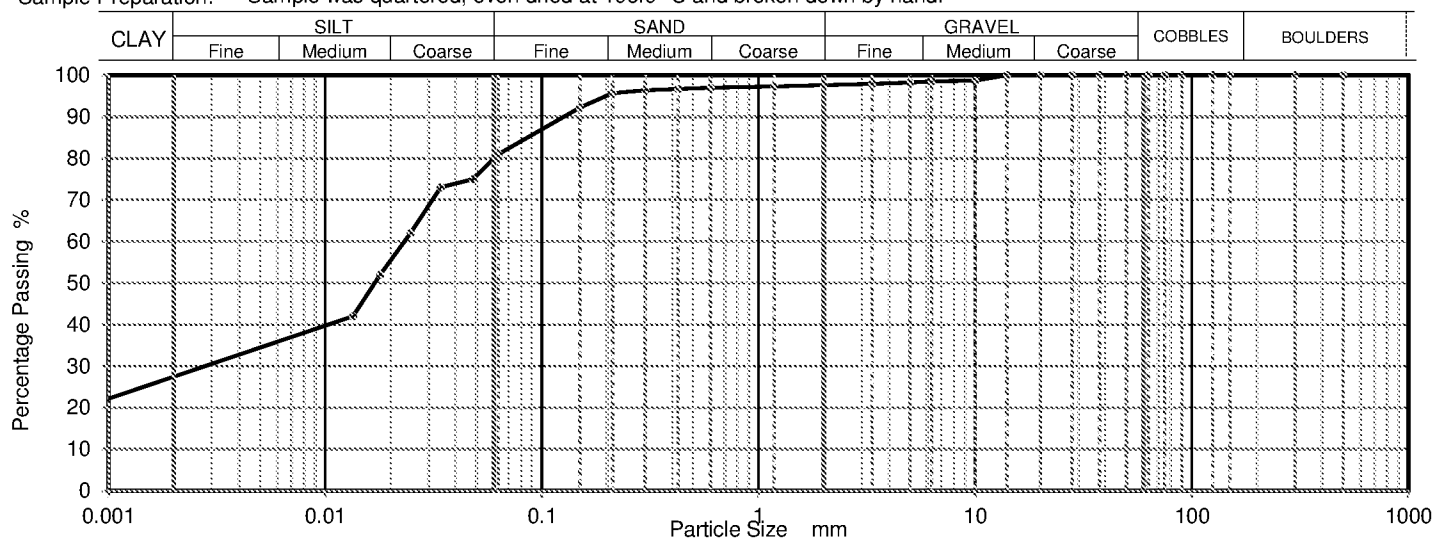
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868971  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0630                                               | 81        |
| 300              | 100       | 0.0479                                               | 75        |
| 150              | 100       | 0.0341                                               | 73        |
| 125              | 100       | 0.0247                                               | 62        |
| 90               | 100       | 0.0179                                               | 52        |
| 75               | 100       | 0.0134                                               | 42        |
| 63               | 100       | 0.009                                                | 21        |
| 50               | 100       |                                                      |           |
| 37.5             | 100       |                                                      |           |
| 28               | 100       |                                                      |           |
| 20               | 100       |                                                      |           |
| 14               | 100       |                                                      |           |
| 10               | 99        |                                                      |           |
| 6.3              | 99        |                                                      |           |
| 5                | 98        |                                                      |           |
| 3.35             | 98        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 98        |                                                      |           |
| 1.18             | 97        |                                                      |           |
| 0.6              | 97        |                                                      |           |
| 0.425            | 97        |                                                      |           |
| 0.3              | 96        |                                                      |           |
| 0.212            | 96        |                                                      |           |
| 0.15             | 92        |                                                      |           |
| 0.063            | 81        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 2          |
| Sand               | 17         |
| Silt               | 54         |
| Clay               | 27         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 27 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
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Page 1 of 1

Date Reported: 28/07/2021

GF 100.20



# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

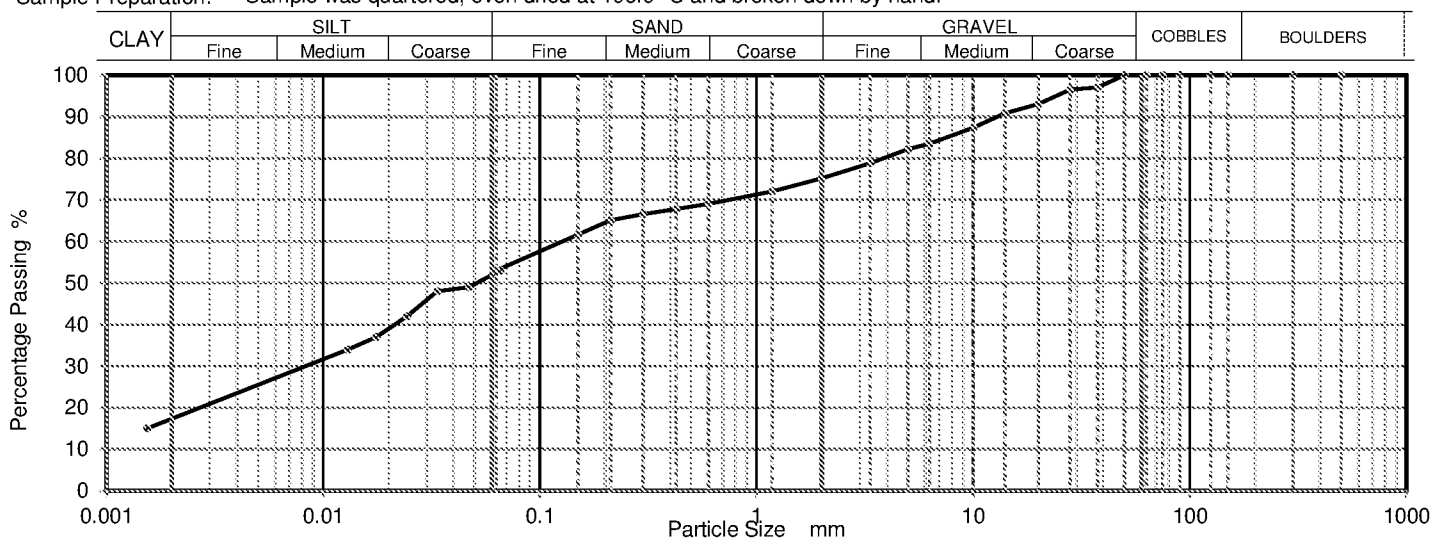
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868972  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Sample Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0656                                               | 53        |
| 300              | 100       | 0.0471                                               | 49        |
| 150              | 100       | 0.0335                                               | 48        |
| 125              | 100       | 0.0244                                               | 42        |
| 90               | 100       | 0.0176                                               | 37        |
| 75               | 100       | 0.0130                                               | 34        |
| 63               | 100       | 0.0015                                               | 15        |
| 50               | 100       |                                                      |           |
| 37.5             | 97        |                                                      |           |
| 28               | 97        |                                                      |           |
| 20               | 93        |                                                      |           |
| 14               | 91        |                                                      |           |
| 10               | 87        |                                                      |           |
| 6.3              | 84        |                                                      |           |
| 5                | 82        |                                                      |           |
| 3.35             | 79        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 75        |                                                      |           |
| 1.18             | 72        |                                                      |           |
| 0.6              | 69        |                                                      |           |
| 0.425            | 68        |                                                      |           |
| 0.3              | 67        |                                                      |           |
| 0.212            | 65        |                                                      |           |
| 0.15             | 62        |                                                      |           |
| 0.063            | 53        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 25         |
| Sand               | 23         |
| Silt               | 34         |
| Clay               | 18         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 84 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz

Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

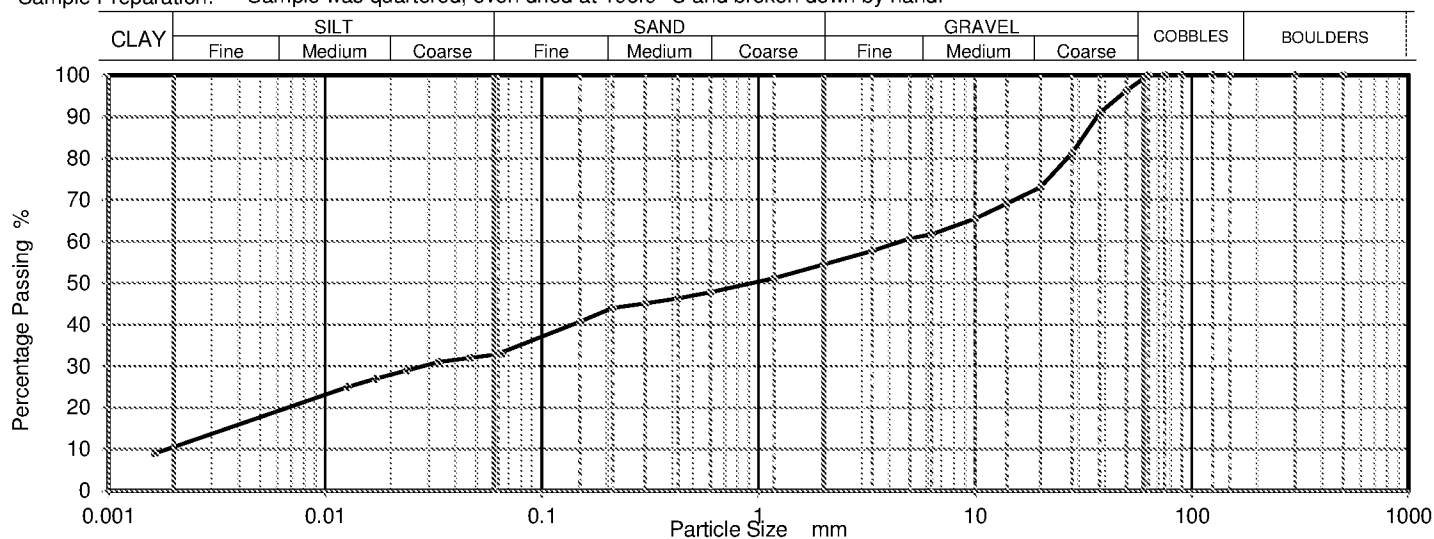
Contact: Mark James  
Site Address: Bognor Regis

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868973  
Hole No.: TP205-TP206  
Sample Reference: B8  
Sample Description: Light brown silty CHALK  
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B





# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

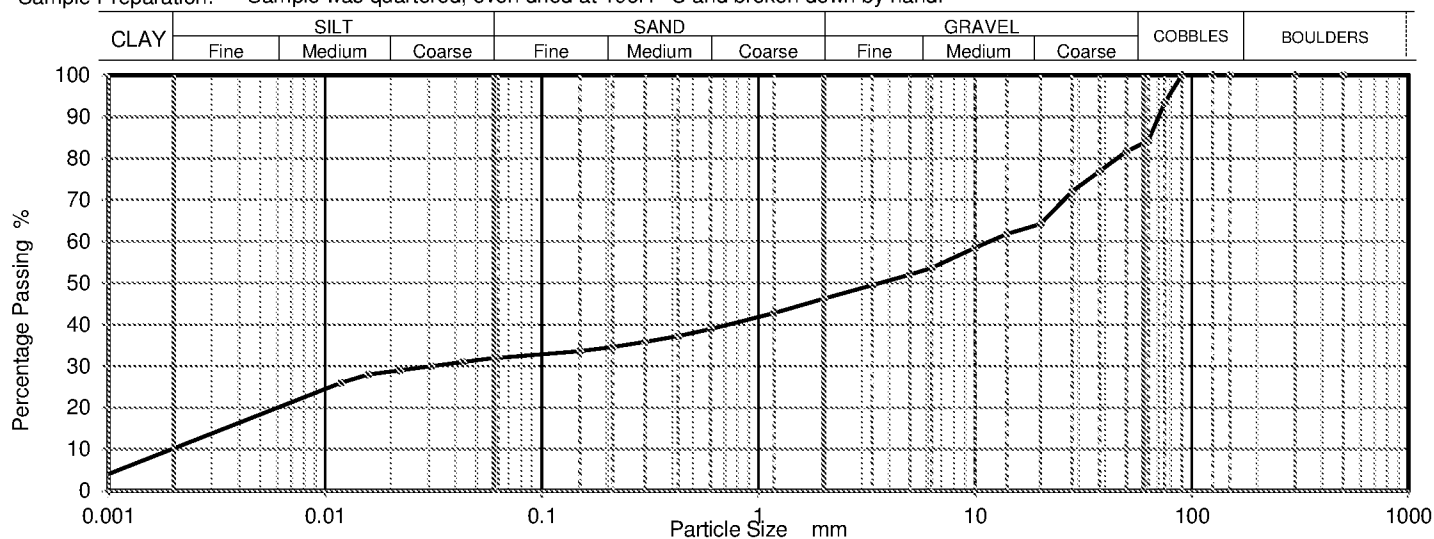
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868974  
Hole No.: TP219-TP204  
Sample Reference: B6  
Sample Description: Light brown clayey CHALK  
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0605                                               | 32        |
| 300              | 100       | 0.0431                                               | 31        |
| 150              | 100       | 0.0308                                               | 30        |
| 125              | 100       | 0.0221                                               | 29        |
| 90               | 100       | 0.0158                                               | 28        |
| 75               | 93        | 0.0118                                               | 26        |
| 63               | 84        | 0.0009                                               | 3         |
| 50               | 82        |                                                      |           |
| 37.5             | 77        |                                                      |           |
| 28               | 72        |                                                      |           |
| 20               | 64        |                                                      |           |
| 14               | 62        |                                                      |           |
| 10               | 59        |                                                      |           |
| 6.3              | 54        |                                                      |           |
| 5                | 52        |                                                      |           |
| 3.35             | 50        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 46        |                                                      |           |
| 1.18             | 43        |                                                      |           |
| 0.6              | 39        |                                                      |           |
| 0.425            | 37        |                                                      |           |
| 0.3              | 36        |                                                      |           |
| 0.212            | 35        |                                                      |           |
| 0.15             | 34        |                                                      |           |
| 0.063            | 32        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 16         |
| Gravel             | 38         |
| Sand               | 15         |
| Silt               | 21         |
| Clay               | 10         |

| Grading Analysis       |            |
|------------------------|------------|
| D100                   | mm 90      |
| D60                    | mm 11.7    |
| D30                    | mm 0.0303  |
| D10                    | mm 0.00199 |
| Uniformity Coefficient | 5900       |
| Curvature Coefficient  | 0.04       |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3  
Re-issue 2: Site Address amended.

Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

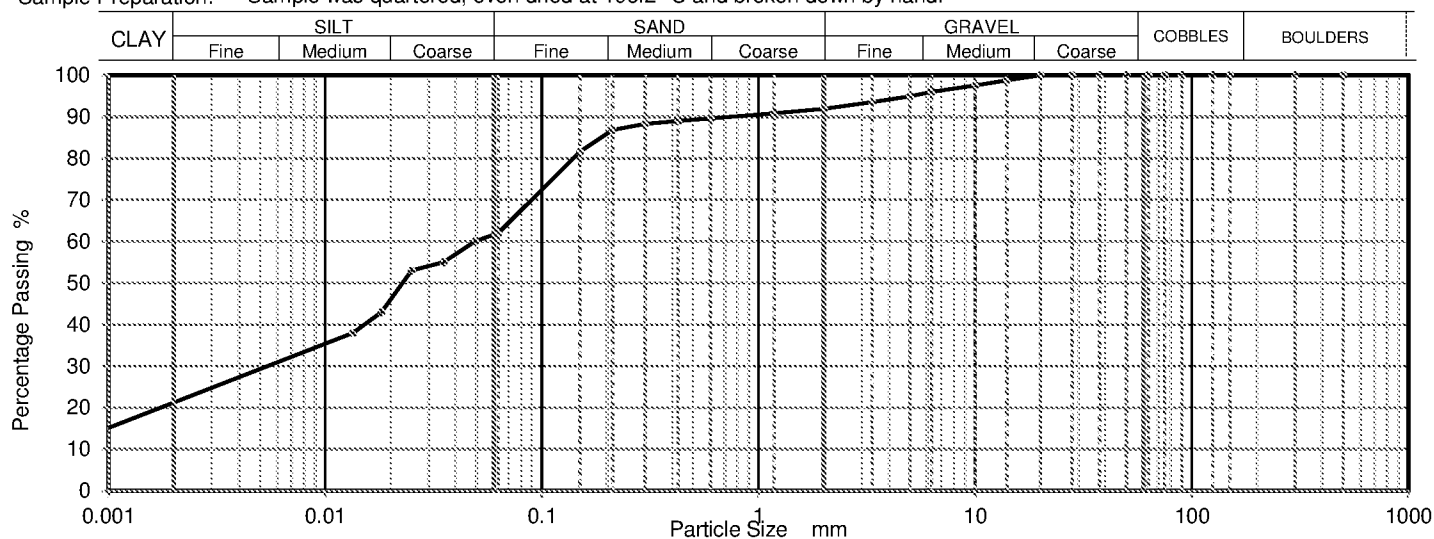
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868975  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Sample Description: Brown slightly gravelly clayey very sandy SILT  
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B



| Sieving          |           | Sedimentation                            |           |
|------------------|-----------|------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                         | % Passing |
| 500              | 100       | 0.0630                                   | 62        |
| 300              | 100       | 0.0492                                   | 60        |
| 150              | 100       | 0.0352                                   | 55        |
| 125              | 100       | 0.0251                                   | 53        |
| 90               | 100       | 0.0182                                   | 43        |
| 75               | 100       | 0.0134                                   | 38        |
| 63               | 100       | 0.009                                    | 14        |
| 50               | 100       |                                          |           |
| 37.5             | 100       |                                          |           |
| 28               | 100       |                                          |           |
| 20               | 100       |                                          |           |
| 14               | 99        |                                          |           |
| 10               | 98        |                                          |           |
| 6.3              | 96        |                                          |           |
| 5                | 95        |                                          |           |
| 3.35             | 94        | Particle density (assumed)<br>2.65 Mg/m3 |           |
| 2                | 92        |                                          |           |
| 1.18             | 91        |                                          |           |
| 0.6              | 90        |                                          |           |
| 0.425            | 89        |                                          |           |
| 0.3              | 88        |                                          |           |
| 0.212            | 87        |                                          |           |
| 0.15             | 82        |                                          |           |
| 0.063            | 62        |                                          |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 8          |
| Sand               | 30         |
| Silt               | 40         |
| Clay               | 22         |

| Grading Analysis       |      |
|------------------------|------|
| D100                   | mm   |
| D60                    | mm   |
| D30                    | mm   |
| D10                    | mm   |
| Uniformity Coefficient | > 58 |
| Curvature Coefficient  |      |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szymon Bielawicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Particle Size Distribution

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way,  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

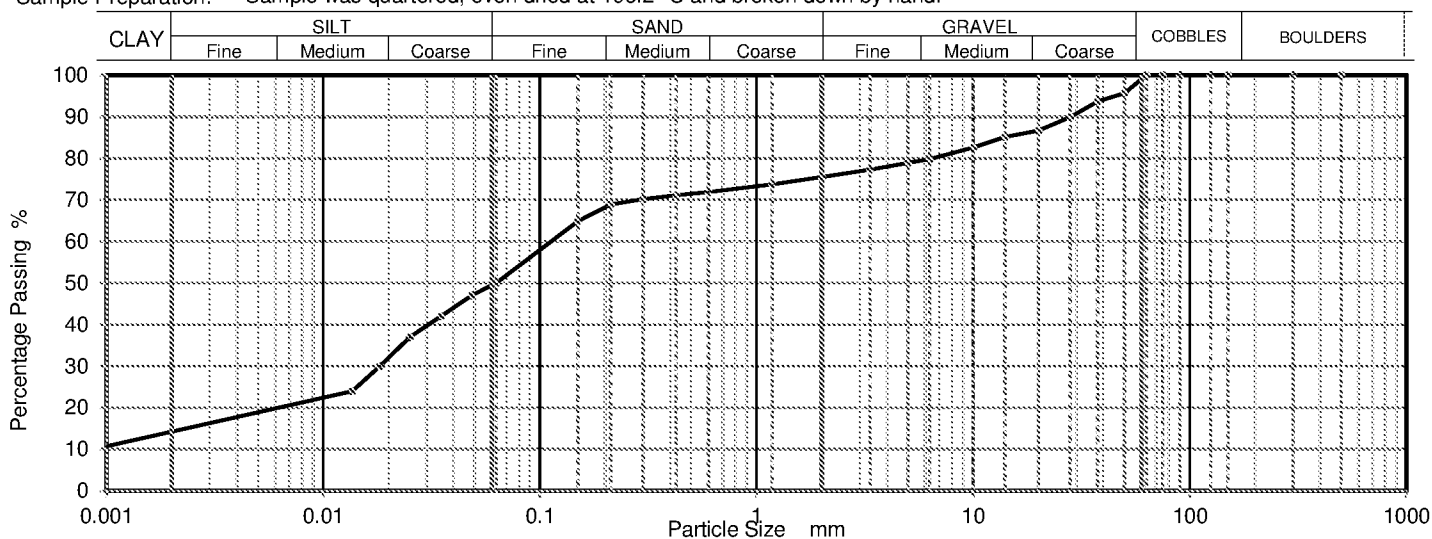
Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 19/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868976  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Sample Description: Light brown clayey very gravelly very sandy SILT  
Sample Preparation: Sample was quartered, oven dried at 106.2 °C and broken down by hand.

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B



| Sieving          |           | Sedimentation                                        |           |
|------------------|-----------|------------------------------------------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm                                     | % Passing |
| 500              | 100       | 0.0630                                               | 50        |
| 300              | 100       | 0.0484                                               | 47        |
| 150              | 100       | 0.0349                                               | 42        |
| 125              | 100       | 0.0252                                               | 37        |
| 90               | 100       | 0.0182                                               | 30        |
| 75               | 100       | 0.0136                                               | 24        |
| 63               | 100       | 0.009                                                | 10        |
| 50               | 96        |                                                      |           |
| 37.5             | 94        |                                                      |           |
| 28               | 90        |                                                      |           |
| 20               | 87        |                                                      |           |
| 14               | 85        |                                                      |           |
| 10               | 83        |                                                      |           |
| 6.3              | 80        |                                                      |           |
| 5                | 79        |                                                      |           |
| 3.35             | 77        | Particle density (assumed)<br>2.65 Mg/m <sup>3</sup> |           |
| 2                | 76        |                                                      |           |
| 1.18             | 74        |                                                      |           |
| 0.6              | 72        |                                                      |           |
| 0.425            | 71        |                                                      |           |
| 0.3              | 70        |                                                      |           |
| 0.212            | 69        |                                                      |           |
| 0.15             | 65        |                                                      |           |
| 0.063            | 50        |                                                      |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 24         |
| Sand               | 25         |
| Silt               | 37         |
| Clay               | 14         |

| Grading Analysis       |          |
|------------------------|----------|
| D100                   | mm 63    |
| D60                    | mm 0.112 |
| D30                    | mm 0.018 |
| D10                    | mm       |
| Uniformity Coefficient | > 130    |
| Curvature Coefficient  |          |

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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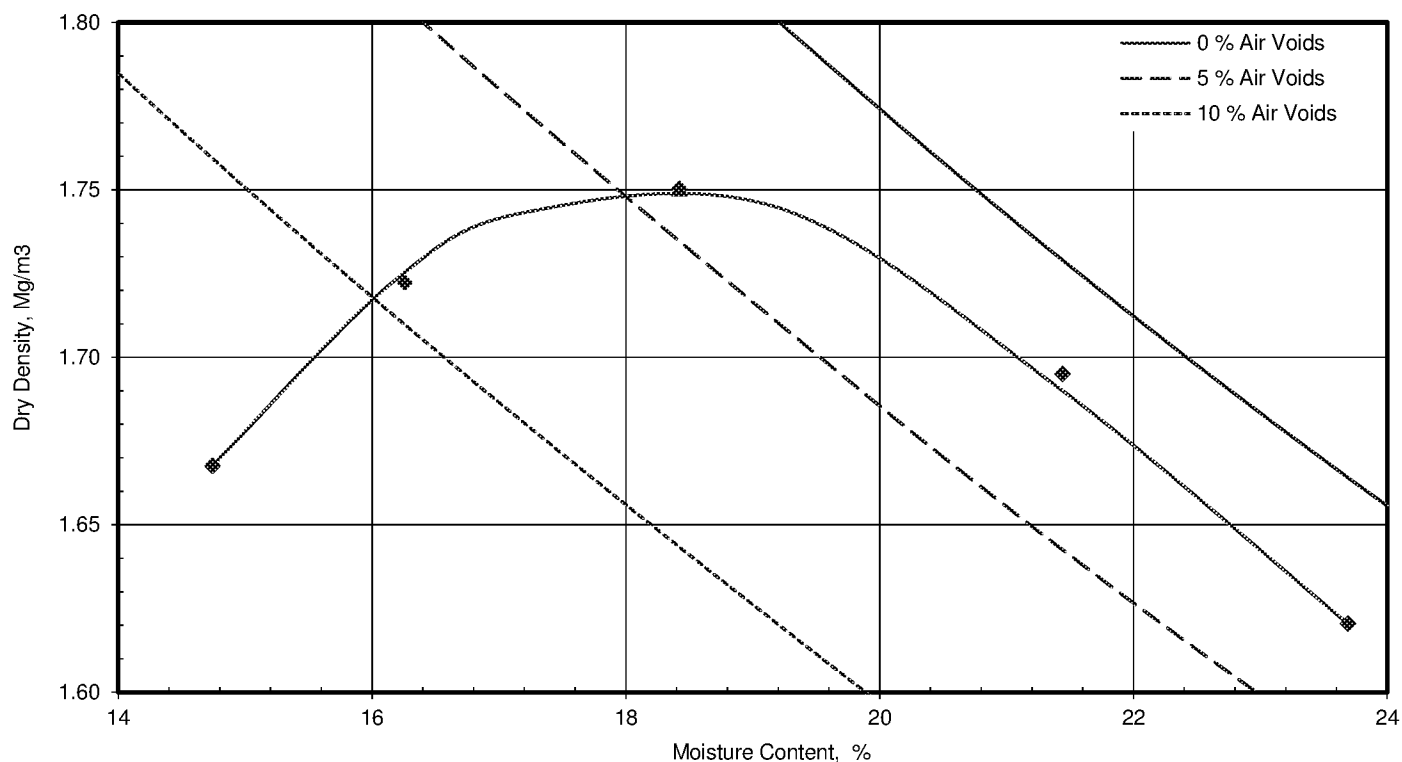
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868955  
Hole No.: TP201  
Sample Reference: B4  
Sample Description: Brown slightly gravelly sandy clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 15   | 16   | 18   | 21   | 24   |
| Dry Density          | Mg/m³ | 1.67 | 1.72 | 1.75 | 1.70 | 1.62 |

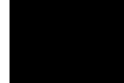
| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 3                    |
| Particle Density - Assumed         | 2.75                 |
| As received Moisture Content       | 18                   |
| Maximum Dry Density                | 1.75                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 18 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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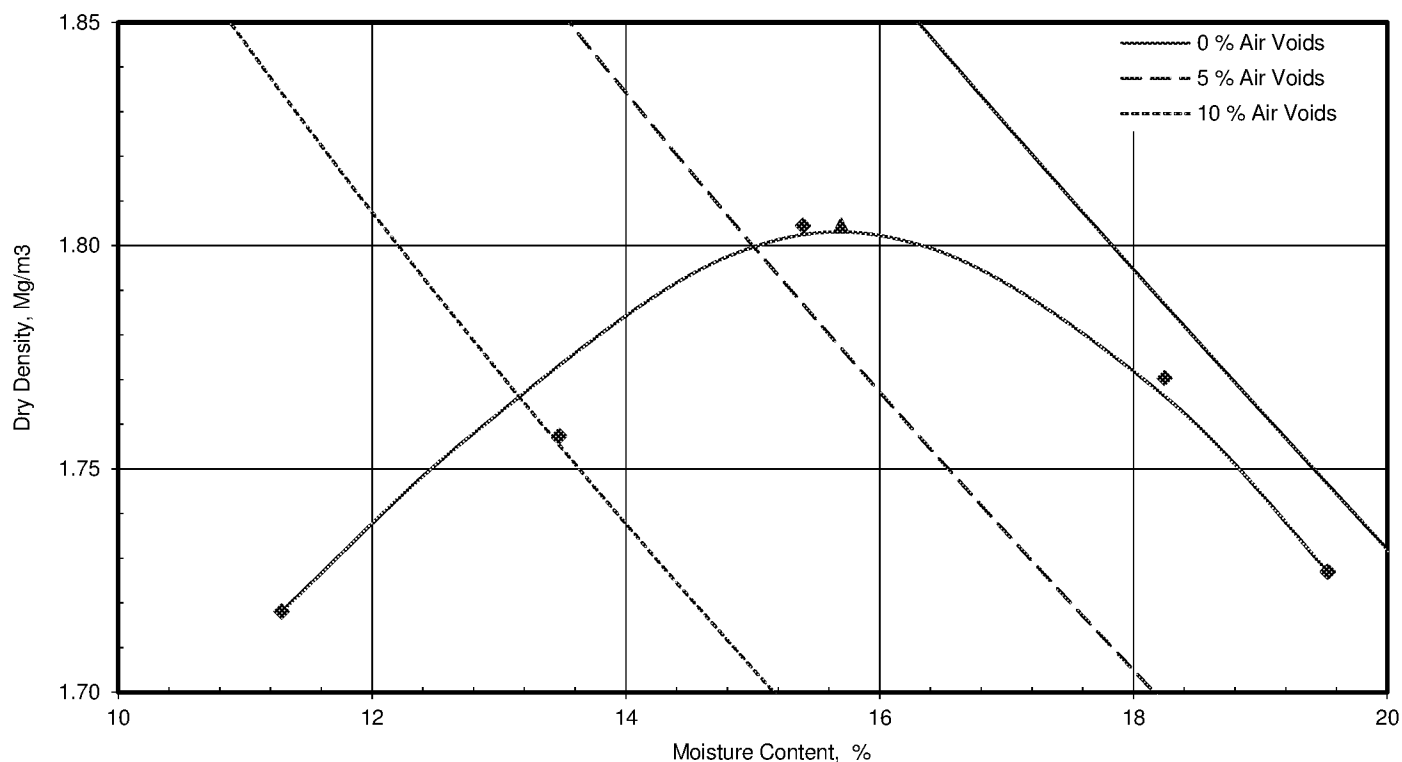
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868957  
Hole No.: TP218  
Sample Reference: B9  
Sample Description: Light brown gravelly clayey very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 11   | 13   | 15   | 18   | 20   |
| Dry Density          | Mg/m³ | 1.72 | 1.76 | 1.80 | 1.77 | 1.73 |

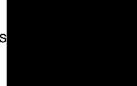
|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 0                    |
| Material Retained on 20.0 mm Sieve | %     | 3                    |
| Particle Density - Assumed         | Mg/m³ | 2.65                 |
| As received Moisture Content       | %     | 17                   |
| Maximum Dry Density                | Mg/m³ | 1.80                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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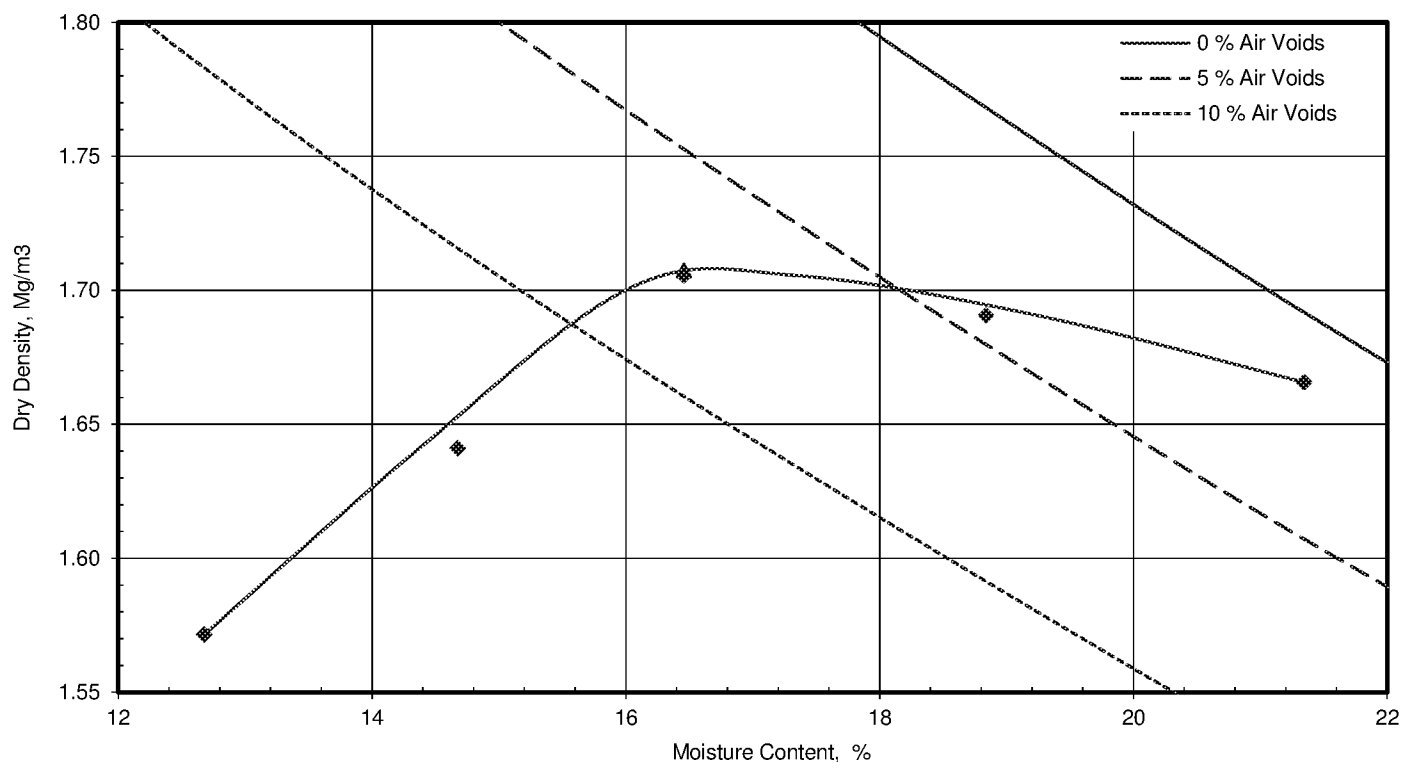
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868958  
Hole No.: TP205  
Sample Reference: B4  
Sample Description: Brown gravelly sandy clayey SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 13   | 15   | 16   | 19   | 21   |
| Dry Density Mg/m³    | 1.57 | 1.64 | 1.71 | 1.69 | 1.67 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 0                    |
| Material Retained on 20.0 mm Sieve % | 3                    |
| Particle Density - Assumed Mg/m³     | 2.65                 |
| As received Moisture Content %       | 23                   |
| Maximum Dry Density Mg/m³            | 1.71                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 16 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

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Signed: [Signature]  
Page 1 of 1Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

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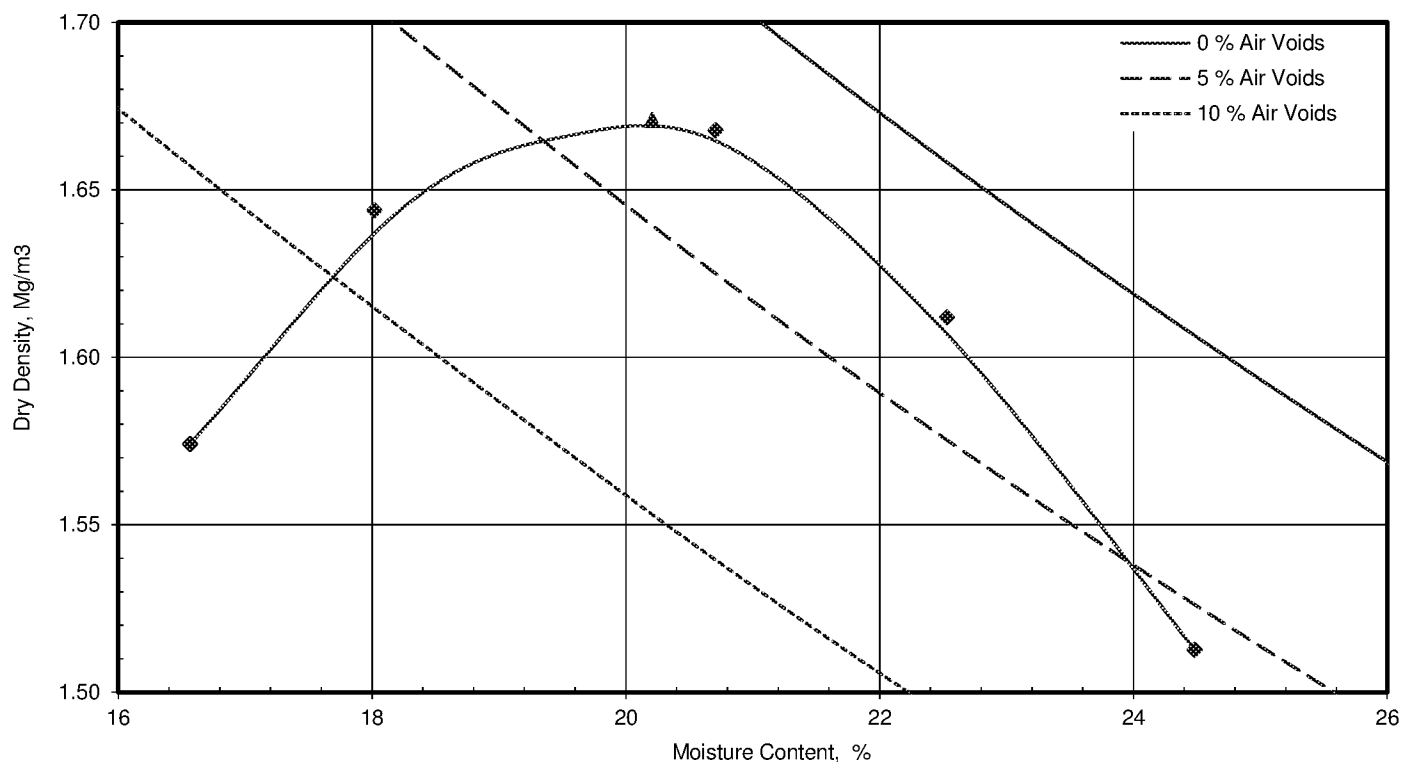
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868959  
Hole No.: TP205  
Sample Reference: B6  
Sample Description: Cream colour sandy silty clayey GRAVEL with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 17   | 18   | 21   | 23   | 24   |
| Dry Density          | Mg/m³ | 1.57 | 1.64 | 1.67 | 1.61 | 1.51 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 3                    |
| Material Retained on 20.0 mm Sieve | %     | 18                   |
| Particle Density - Assumed         | Mg/m³ | 2.65                 |
| As received Moisture Content       | %     | 21                   |
| Maximum Dry Density                | Mg/m³ | 1.67                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 20 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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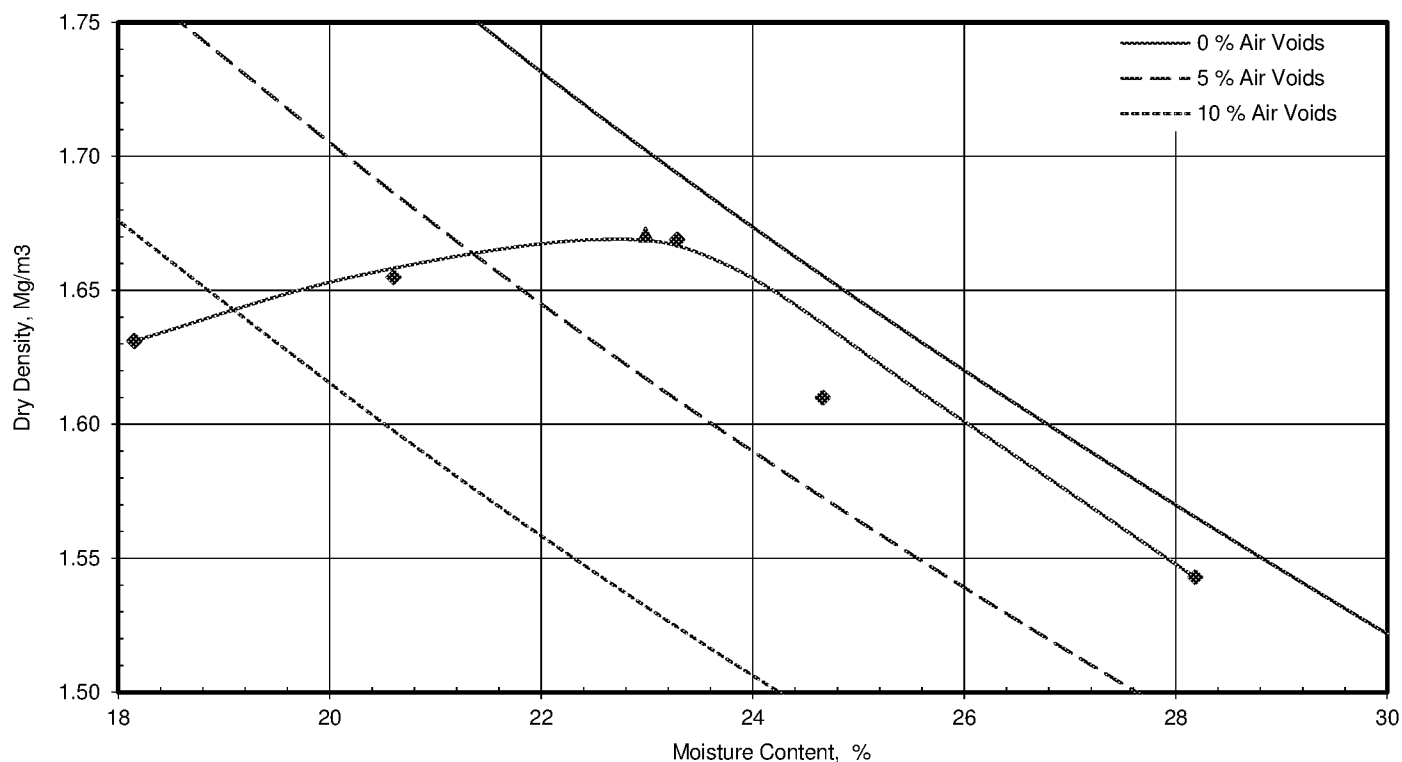
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868960  
Hole No.: TP204  
Sample Reference: B8  
Sample Description: Cream colour slightly gravelly CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 18   | 21   | 23   | 25   | 28   |
| Dry Density          | Mg/m³ | 1.63 | 1.65 | 1.67 | 1.61 | 1.54 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 10                   |
| Material Retained on 20.0 mm Sieve | %     | 24                   |
| Particle Density - Assumed         | Mg/m³ | 2.80                 |
| As received Moisture Content       | %     | 23                   |
| Maximum Dry Density                | Mg/m³ | 1.67                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 23 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07

Job Number: 21-74554

Date Sampled: 30/04/2021

Date Received: 04/05/2021

Date Tested: 26/05/2021

Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**

Laboratory Reference: 1868962

Hole No.: TP212

Sample Reference: B5

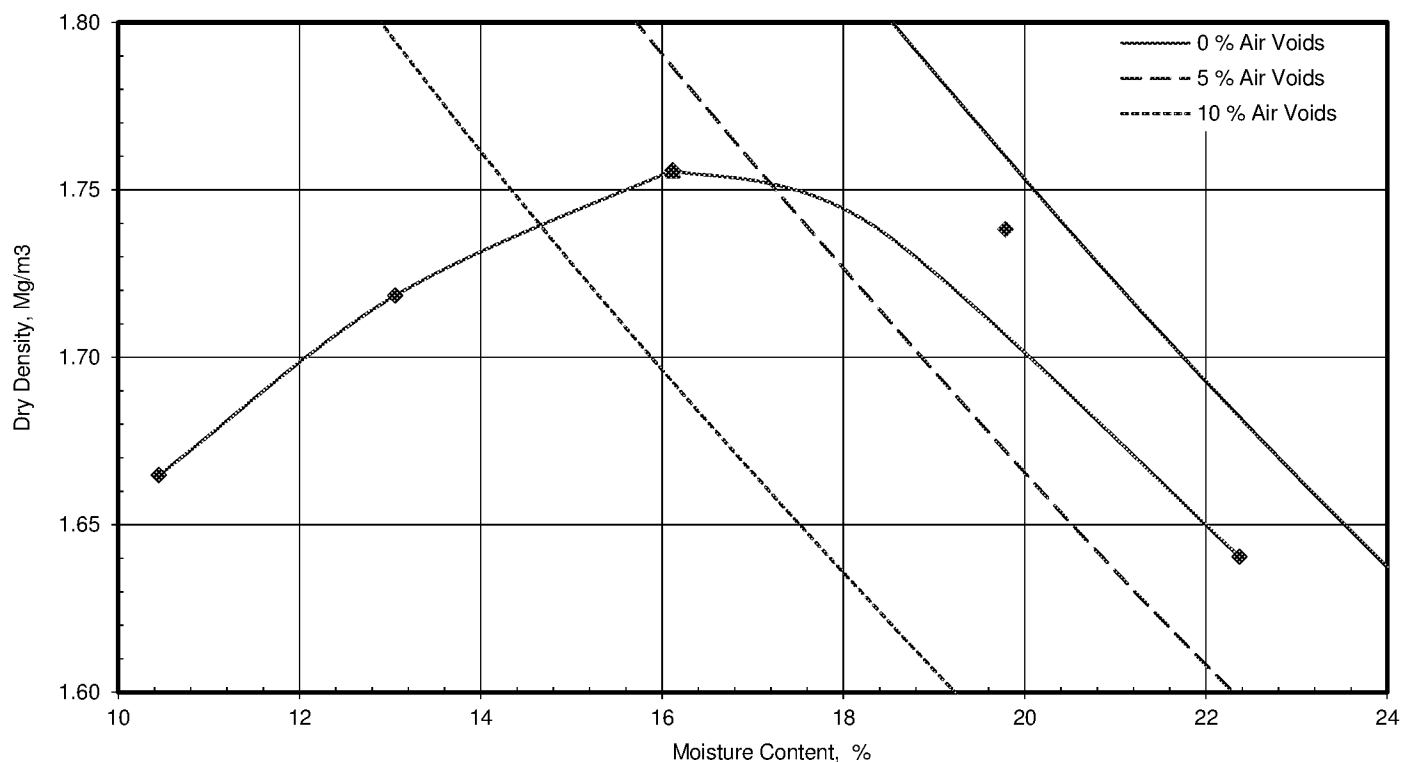
Sample Description: Brown slightly gravelly sandy very clayey SILT

Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.

Depth Top [m]: 1.00

Depth Base [m]: 1.20

Sample Type: B



|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 10   | 13   | 16   | 20   | 22   |
| Dry Density          | Mg/m³ | 1.66 | 1.72 | 1.76 | 1.74 | 1.64 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 2                    |
| Particle Density - Assumed         | 2.70                 |
| As received Moisture Content       | 20                   |
| Maximum Dry Density                | 1.76                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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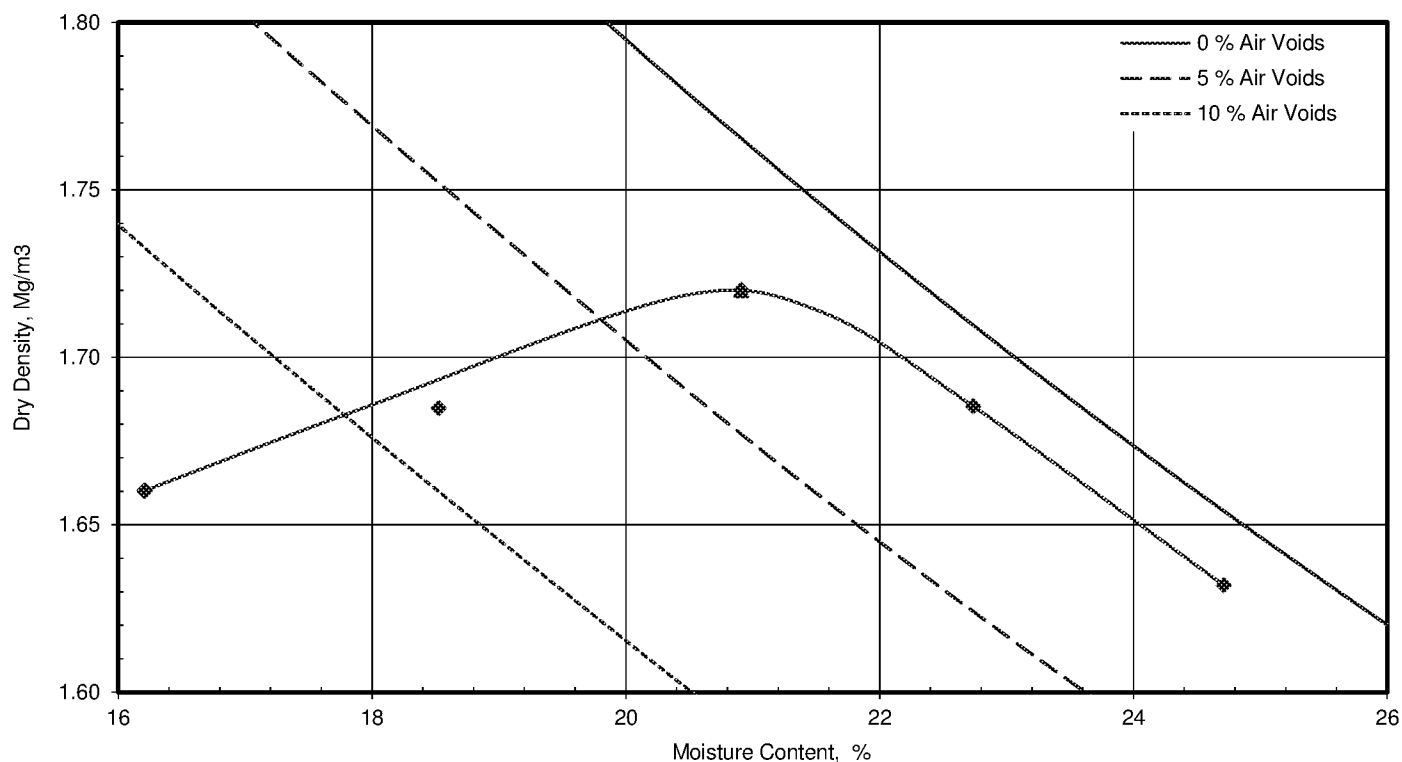
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868966  
Hole No.: TP209  
Sample Reference: B10  
Sample Description: Cream colour sandy clayey very gravelly SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 16   | 19   | 21   | 23   | 25   |
| Dry Density          | Mg/m³ | 1.66 | 1.68 | 1.72 | 1.69 | 1.63 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.80                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.72                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 21 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczeban Bielawicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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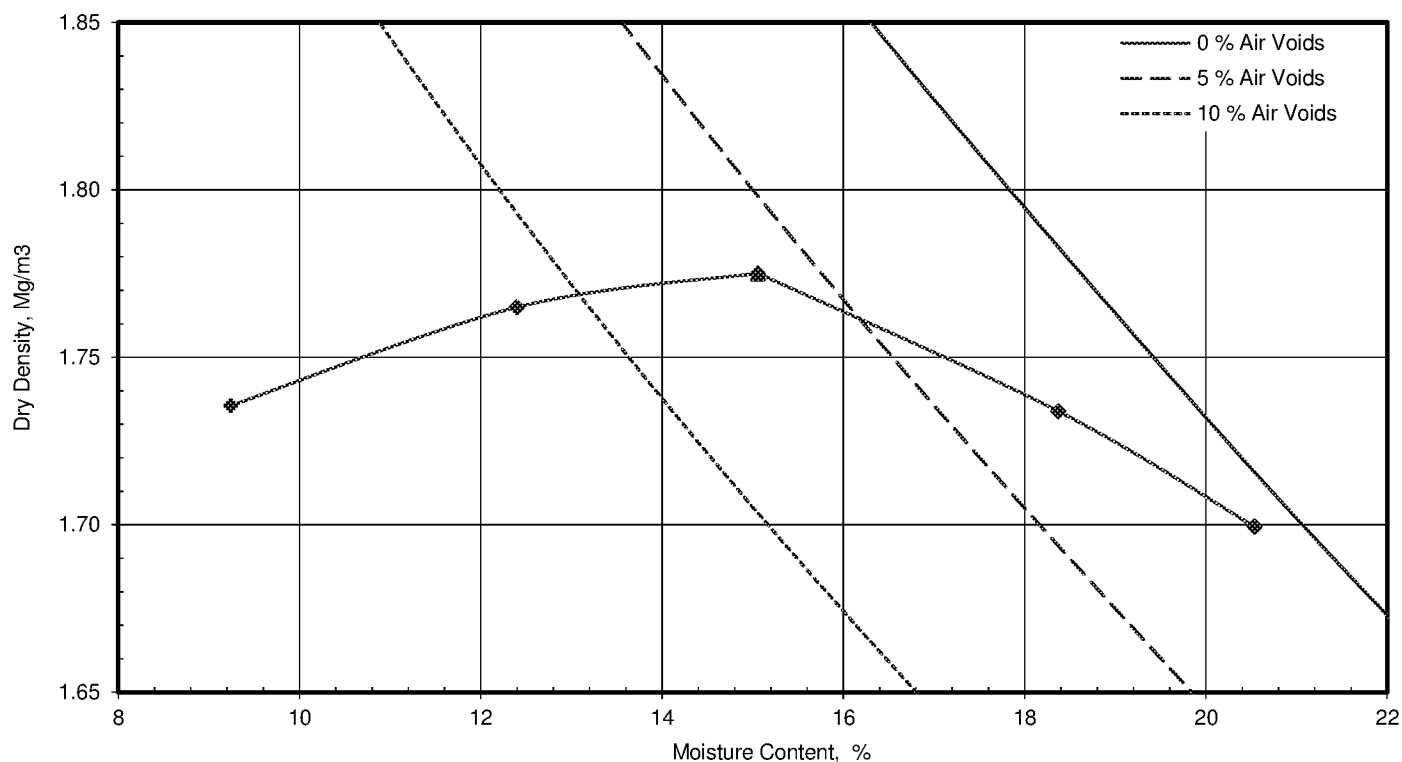
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868965  
Hole No.: TP218  
Sample Reference: B4  
Sample Description: Brown sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 9.2  | 12   | 15   | 18   | 21   |
| Dry Density          | Mg/m³ | 1.74 | 1.76 | 1.78 | 1.73 | 1.70 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.65                 |
| As received Moisture Content       | 22                   |
| Maximum Dry Density                | 1.78                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 15 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczeban Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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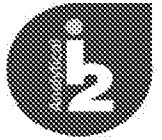
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Date Reported: 28/07/2021

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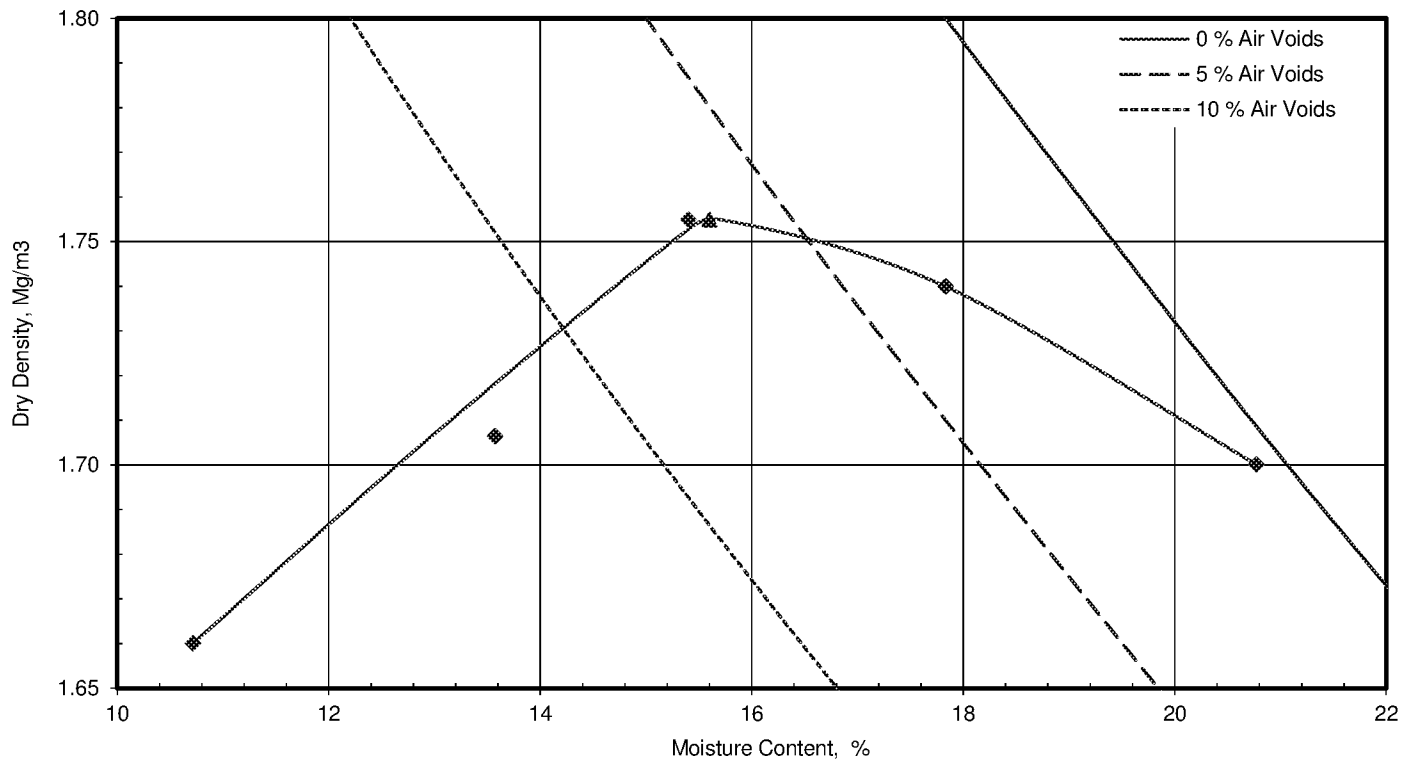
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868969  
Hole No.: TP209  
Sample Reference: B5  
Sample Description: Brown sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. | 1     | 2    | 3    | 4    | 5    |      |
| Moisture Content     | %     | 11   | 14   | 15   | 18   | 21   |
| Dry Density          | Mg/m³ | 1.66 | 1.71 | 1.75 | 1.74 | 1.70 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.65                 |
| As received Moisture Content       | 21                   |
| Maximum Dry Density                | 1.75                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

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Szczeban Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 109.21



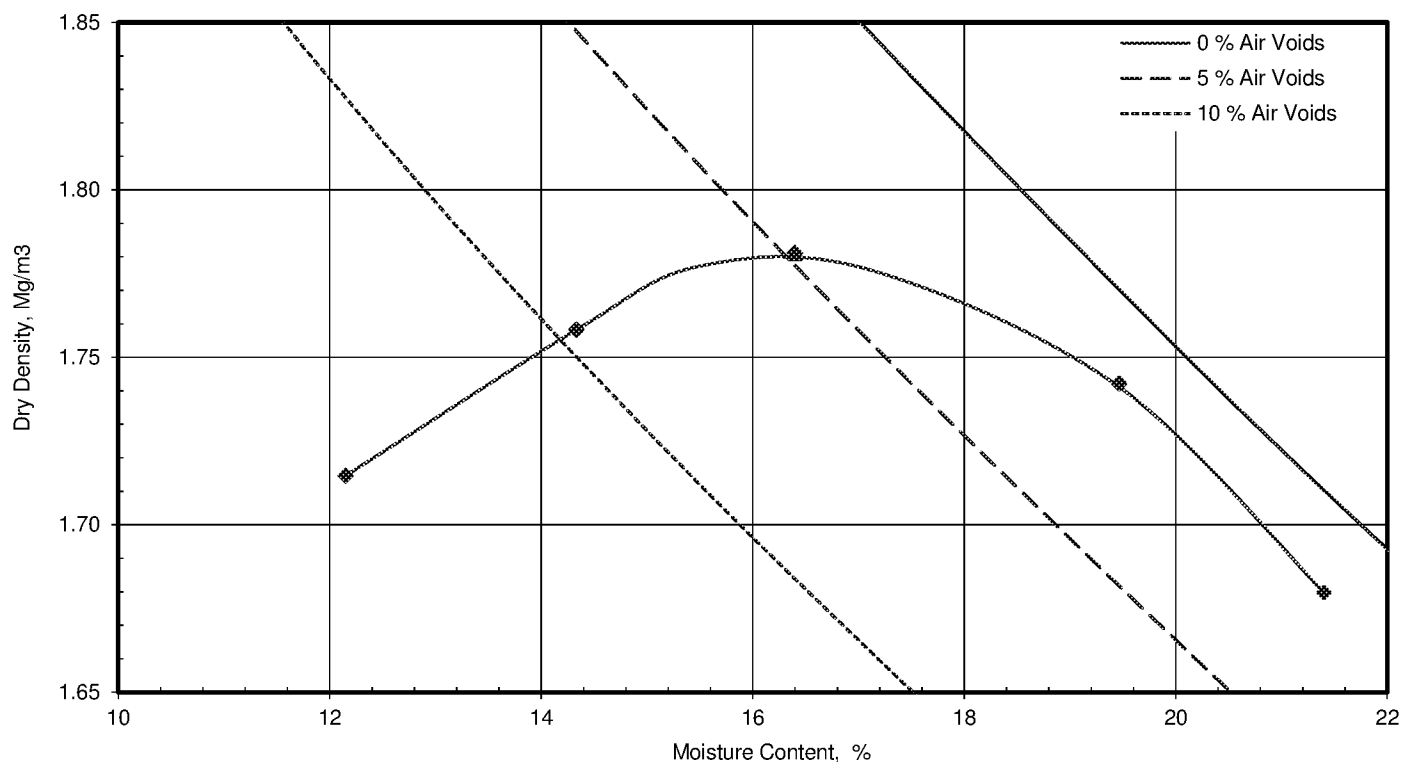
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868970  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Sample Description: Brown gravelly sandy clayey SILT with fragments of flintstone  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 12   | 14   | 16   | 19   | 21   |
| Dry Density Mg/m³    | 1.71 | 1.76 | 1.78 | 1.74 | 1.68 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 10                   |
| Material Retained on 20.0 mm Sieve % | 10                   |
| Particle Density - Assumed Mg/m³     | 2.70                 |
| As received Moisture Content %       | 19                   |
| Maximum Dry Density Mg/m³            | 1.78                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 16 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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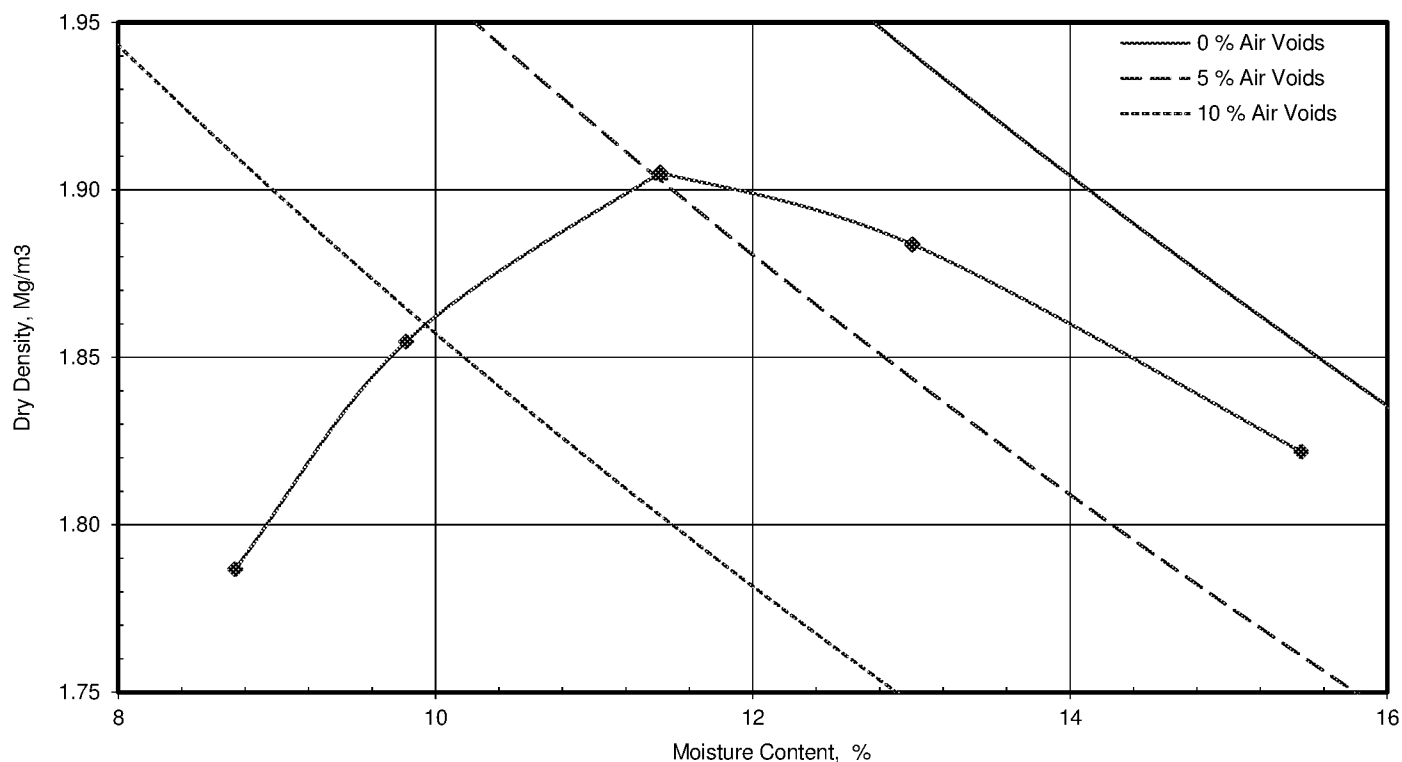
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Sample Description: Brown gravelly sandy clayey SILT with fragments of flintstone  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 8.7  | 9.8  | 11   | 13   | 15   |
| Dry Density          | Mg/m³ | 1.79 | 1.85 | 1.91 | 1.88 | 1.82 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 10                   |
| Material Retained on 20.0 mm Sieve | 10                   |
| Particle Density - Assumed         | 2.60                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.91                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 11 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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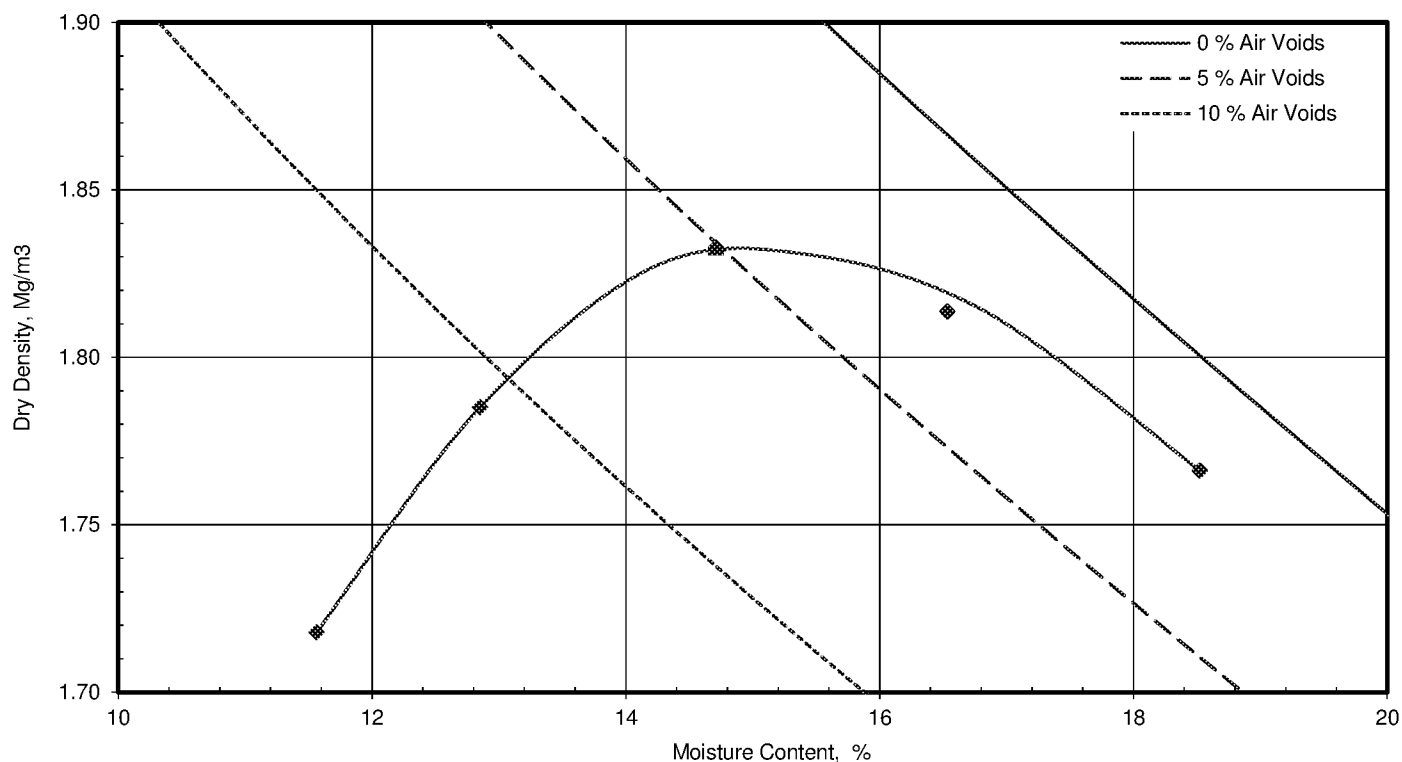
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Sample Description: Brown gravelly sandy clayey SILT with fragments of flintstone  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 12   | 13   | 15   | 17   | 19   |
| Dry Density          | Mg/m³ | 1.72 | 1.79 | 1.83 | 1.81 | 1.77 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 10                   |
| Material Retained on 20.0 mm Sieve | 10                   |
| Particle Density - Assumed         | 2.70                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.83                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 15 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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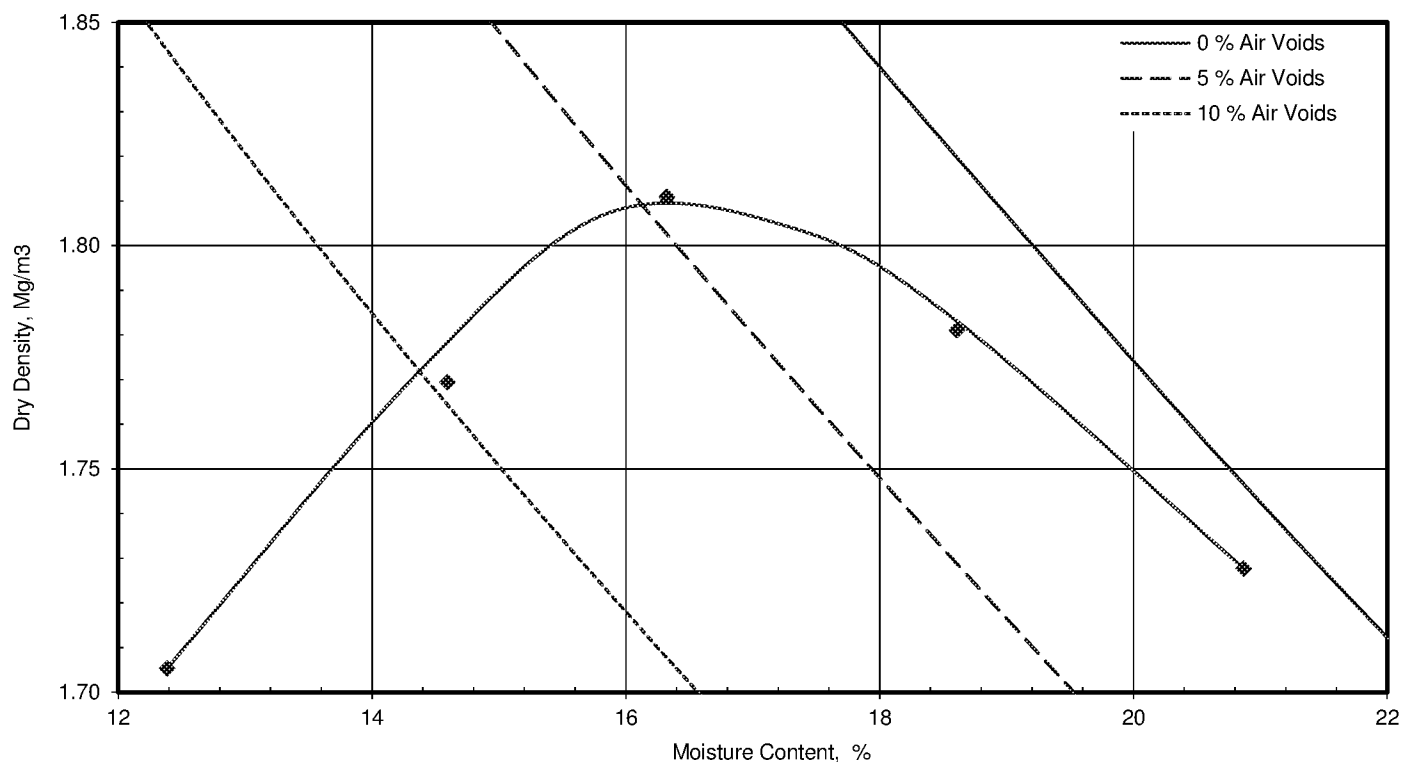
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Sample Description: Brown gravelly sandy clayey SILT with fragments of flintstone  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 12   | 15   | 16   | 19   | 21   |
| Dry Density Mg/m³    | 1.71 | 1.77 | 1.81 | 1.78 | 1.73 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 10                   |
| Material Retained on 20.0 mm Sieve % | 10                   |
| Particle Density - Assumed Mg/m³     | 2.75                 |
| As received Moisture Content %       | 19                   |
| Maximum Dry Density Mg/m³            | 1.81                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 16 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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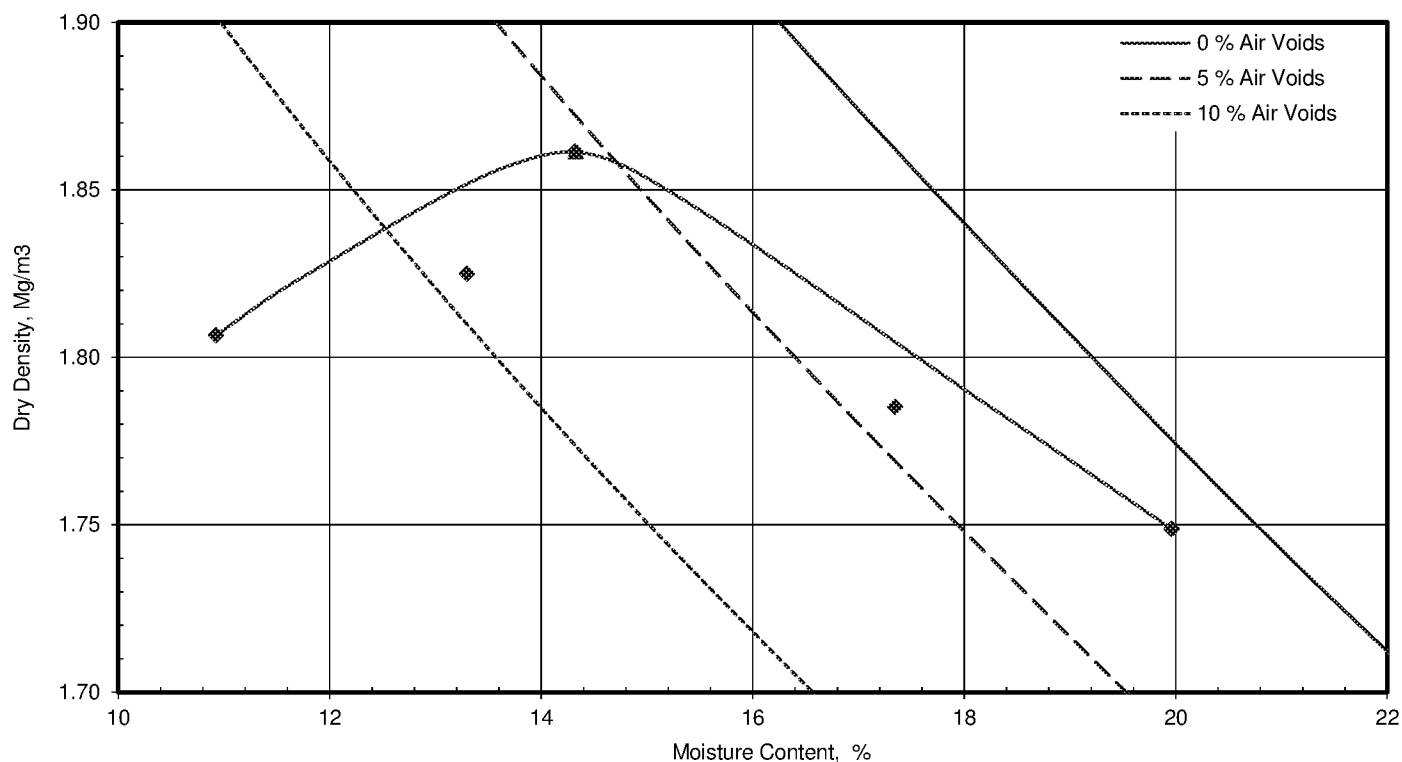
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868971  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 11   | 13   | 14   | 17   | 20   |
| Dry Density Mg/m³    | 1.81 | 1.82 | 1.86 | 1.79 | 1.75 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 0                    |
| Material Retained on 20.0 mm Sieve % | 0                    |
| Particle Density - Assumed Mg/m³     | 2.75                 |
| As received Moisture Content %       | 20                   |
| Maximum Dry Density Mg/m³            | 1.86                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 14 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczeban Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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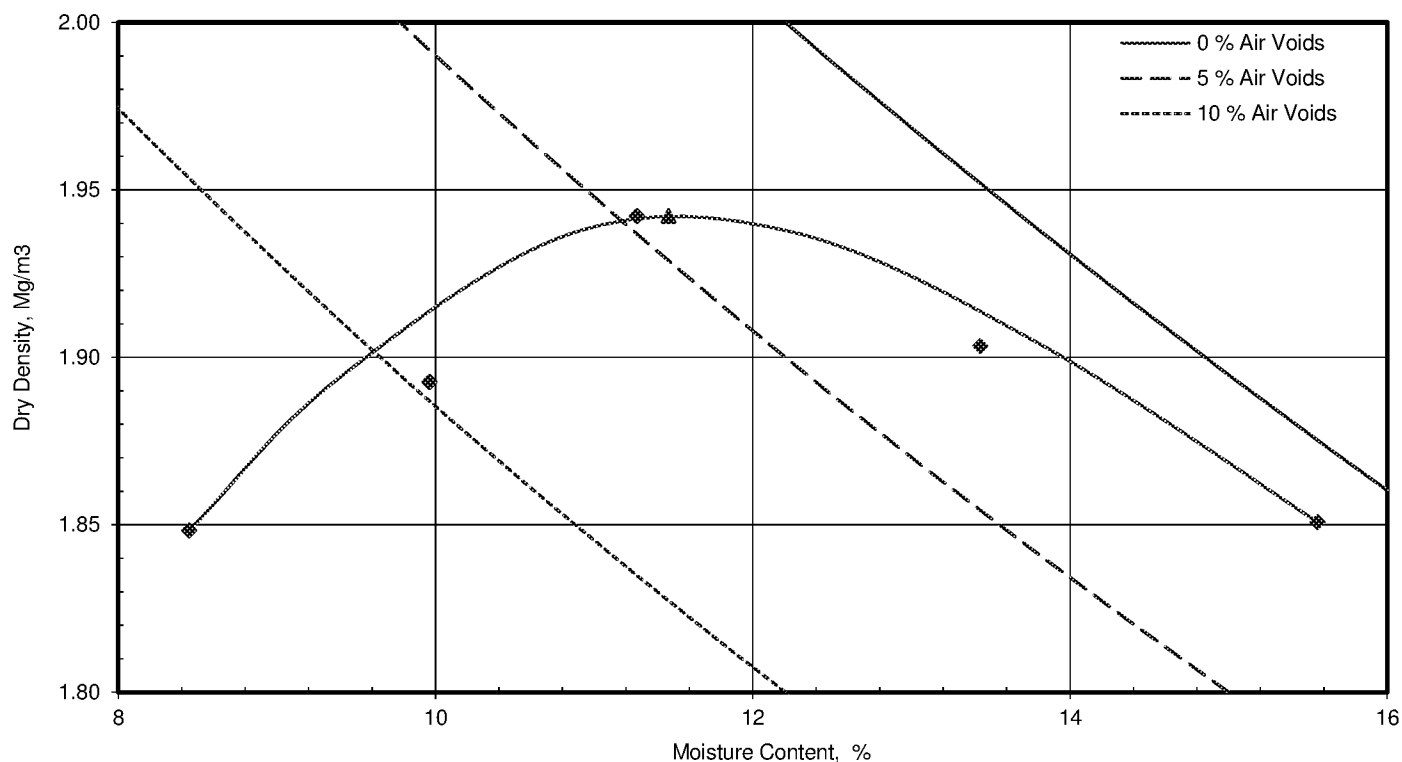
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Compaction Point No. | 1     | 2    | 3    | 4    | 5    |      |
|----------------------|-------|------|------|------|------|------|
| Moisture Content     | %     | 8.4  | 10.0 | 11   | 13   | 16   |
| Dry Density          | Mg/m³ | 1.85 | 1.89 | 1.94 | 1.90 | 1.85 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.65                 |
| As received Moisture Content       | 20                   |
| Maximum Dry Density                | 1.94                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 11 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczeban Bielawicz  
Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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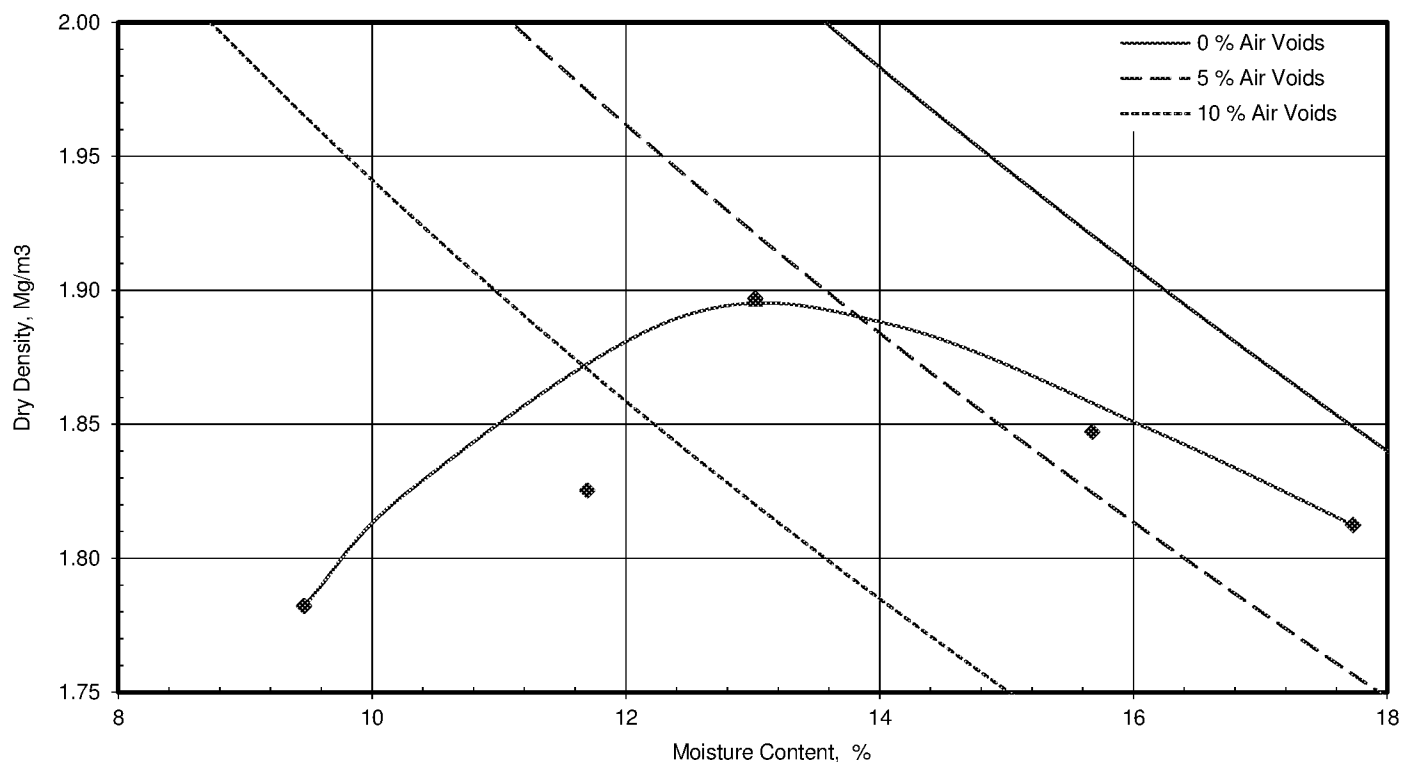
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 9.5  | 12   | 13   | 16   | 18   |
| Dry Density          | Mg/m³ | 1.78 | 1.83 | 1.90 | 1.85 | 1.81 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.75                 |
| As received Moisture Content       | 20                   |
| Maximum Dry Density                | 1.90                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 13 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczezan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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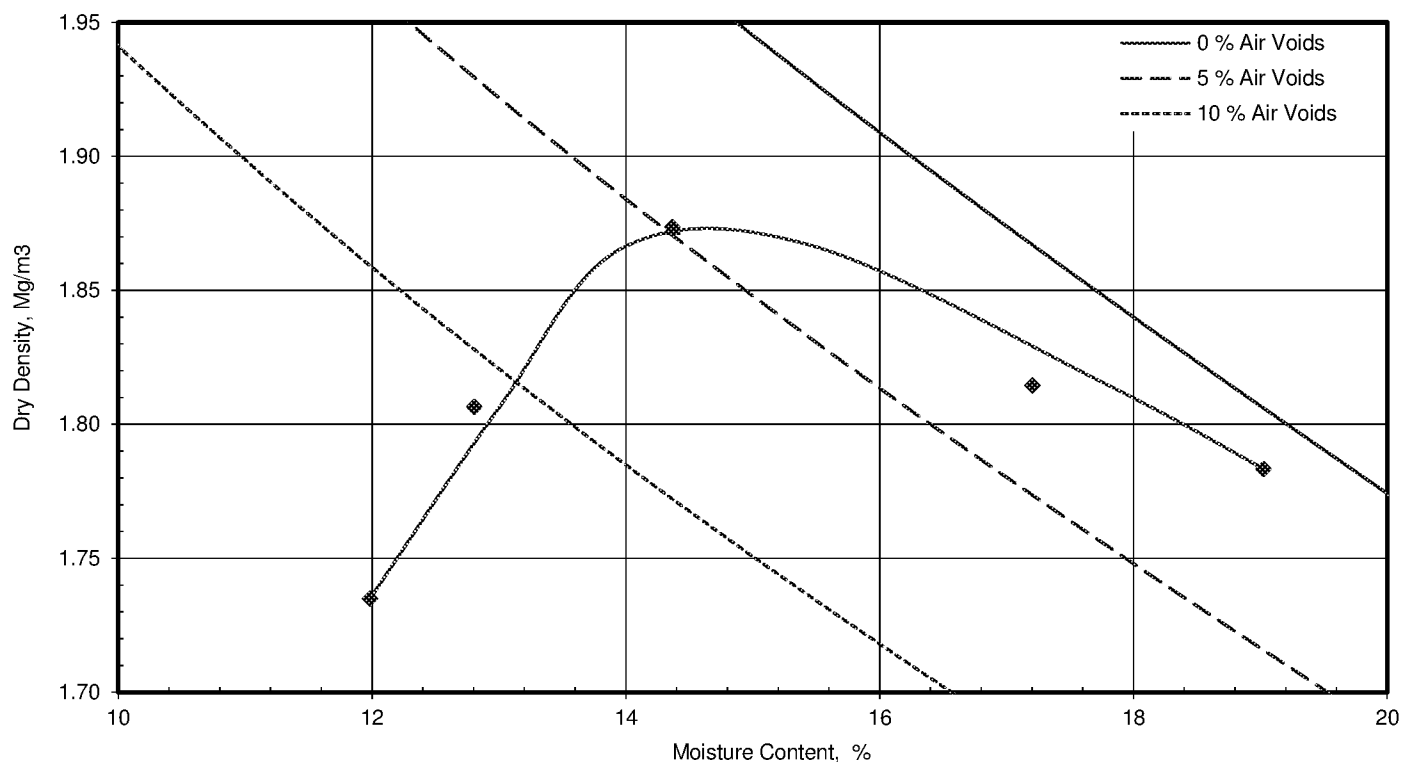
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Sample Description: Brown slightly gravelly sandy very clayey SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 12   | 13   | 14   | 17   | 19   |
| Dry Density          | Mg/m³ | 1.73 | 1.81 | 1.87 | 1.81 | 1.78 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.75                 |
| As received Moisture Content       | 20                   |
| Maximum Dry Density                | 1.87                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 14 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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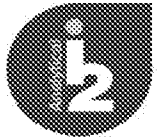
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Date Reported: 28/07/2021

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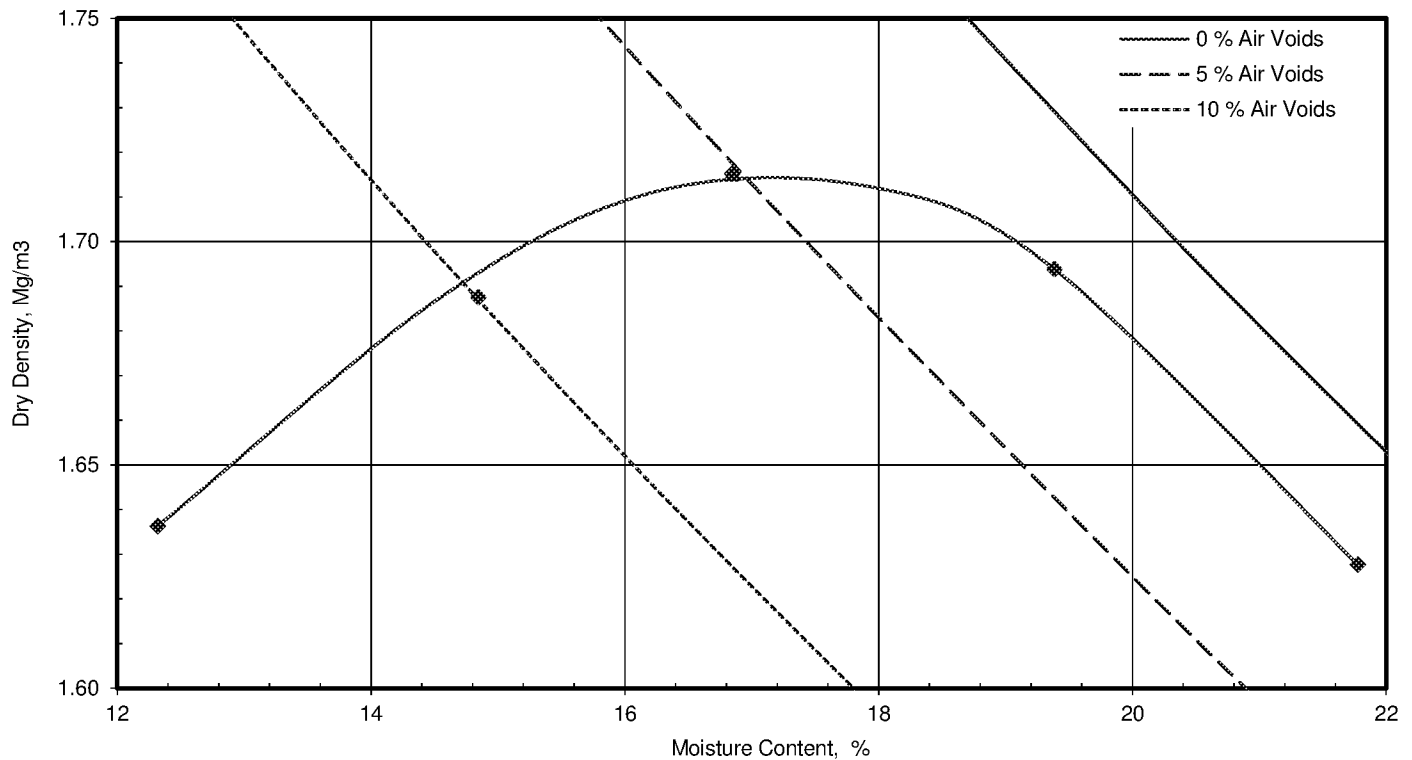
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868972  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Sample Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |      |      |      |      |      |
|----------------------|------|------|------|------|------|
| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
| Moisture Content %   | 12   | 15   | 17   | 19   | 22   |
| Dry Density Mg/m³    | 1.64 | 1.69 | 1.72 | 1.69 | 1.63 |

|                                      |                      |
|--------------------------------------|----------------------|
| Mould Type                           | CBR                  |
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 3                    |
| Material Retained on 20.0 mm Sieve % | 7                    |
| Particle Density - Assumed Mg/m³     | 2.60                 |
| As received Moisture Content %       | 17                   |
| Maximum Dry Density Mg/m³            | 1.72                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 17 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczeban Bielatowicz

Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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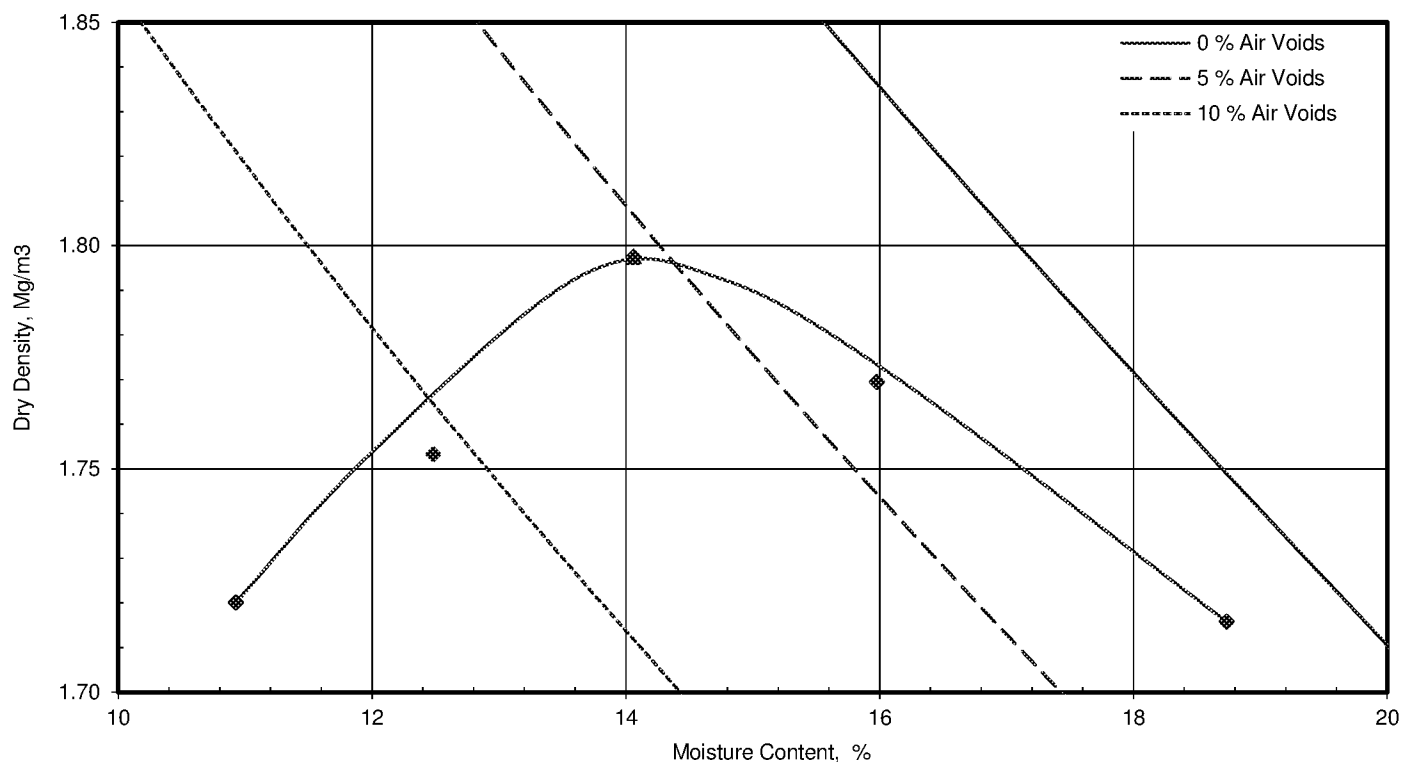
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 09/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Sample Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 11   | 12   | 14   | 16   | 19   |
| Dry Density          | Mg/m³ | 1.72 | 1.75 | 1.80 | 1.77 | 1.72 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 3                    |
| Material Retained on 20.0 mm Sieve | 7                    |
| Particle Density - Assumed         | 2.60                 |
| As received Moisture Content       | 17                   |
| Maximum Dry Density                | 1.80                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 14 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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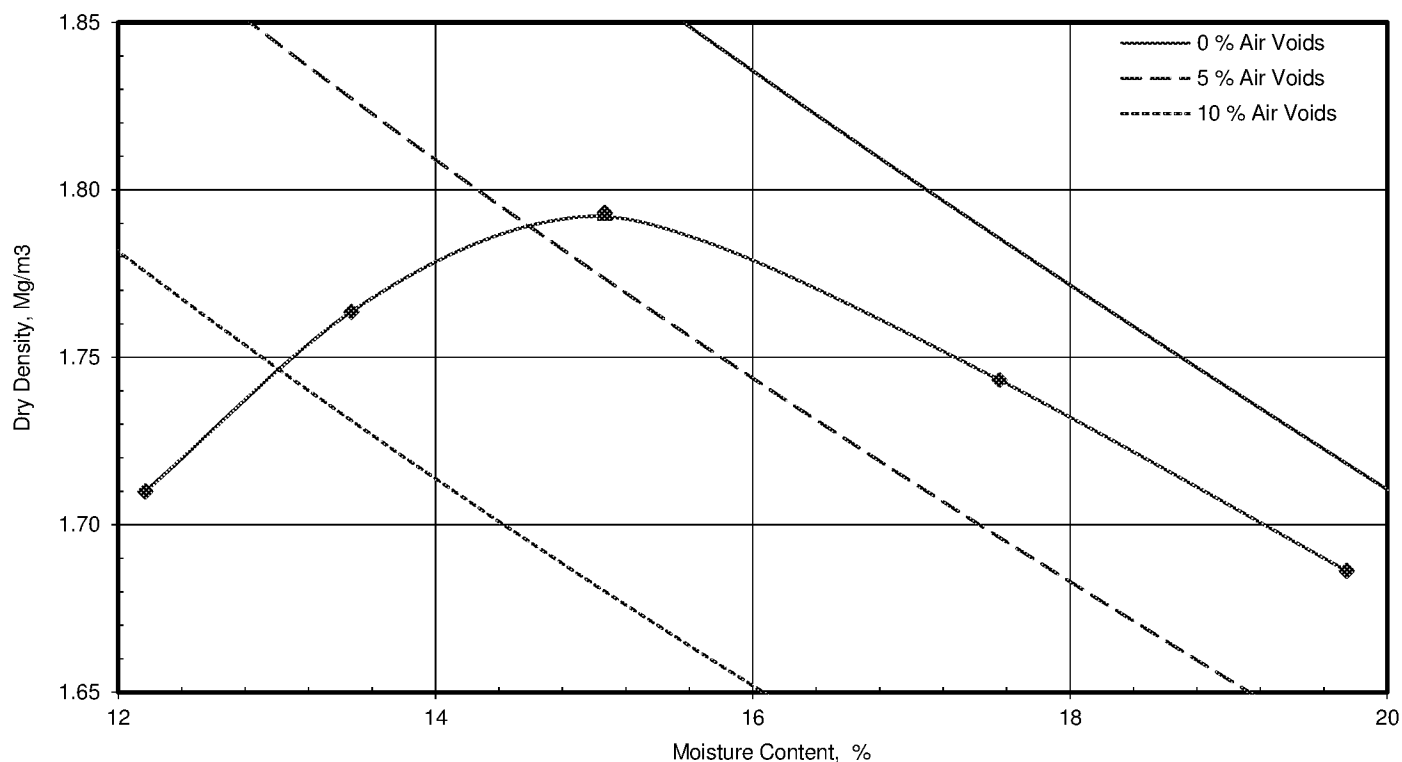
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**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 09/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Sample Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 12   | 13   | 15   | 18   | 20   |
| Dry Density          | Mg/m³ | 1.71 | 1.76 | 1.79 | 1.74 | 1.69 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 3                    |
| Material Retained on 20.0 mm Sieve | %     | 7                    |
| Particle Density - Assumed         | Mg/m³ | 2.60                 |
| As received Moisture Content       | %     | 17                   |
| Maximum Dry Density                | Mg/m³ | 1.79                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 15 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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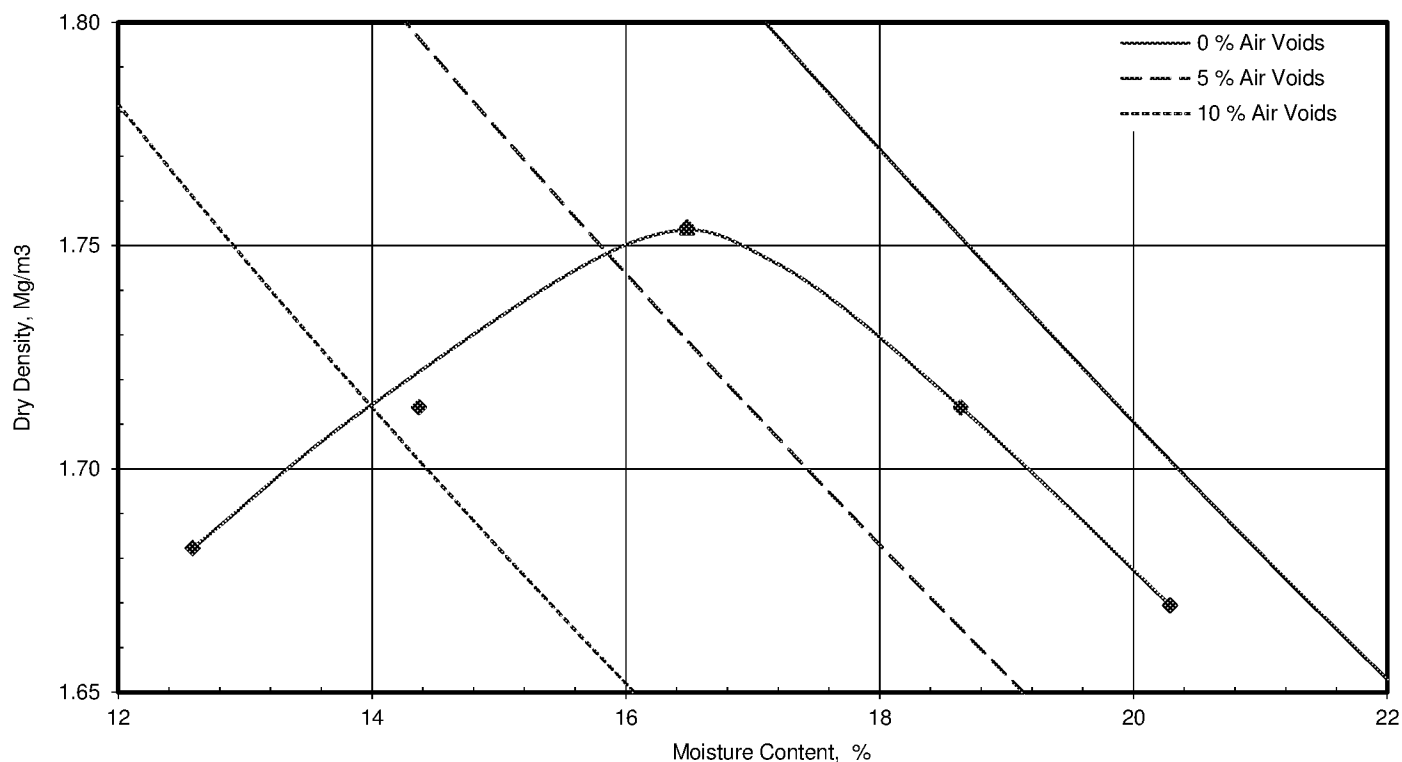
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 09/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Sample Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Compaction Point No. | 1     | 2    | 3    | 4    | 5    |      |
|----------------------|-------|------|------|------|------|------|
| Moisture Content     | %     | 13   | 14   | 16   | 19   | 20   |
| Dry Density          | Mg/m³ | 1.68 | 1.71 | 1.75 | 1.71 | 1.67 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 3                    |
| Material Retained on 20.0 mm Sieve | 7                    |
| Particle Density - Assumed         | 2.60                 |
| As received Moisture Content       | 17                   |
| Maximum Dry Density                | 1.75                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
L Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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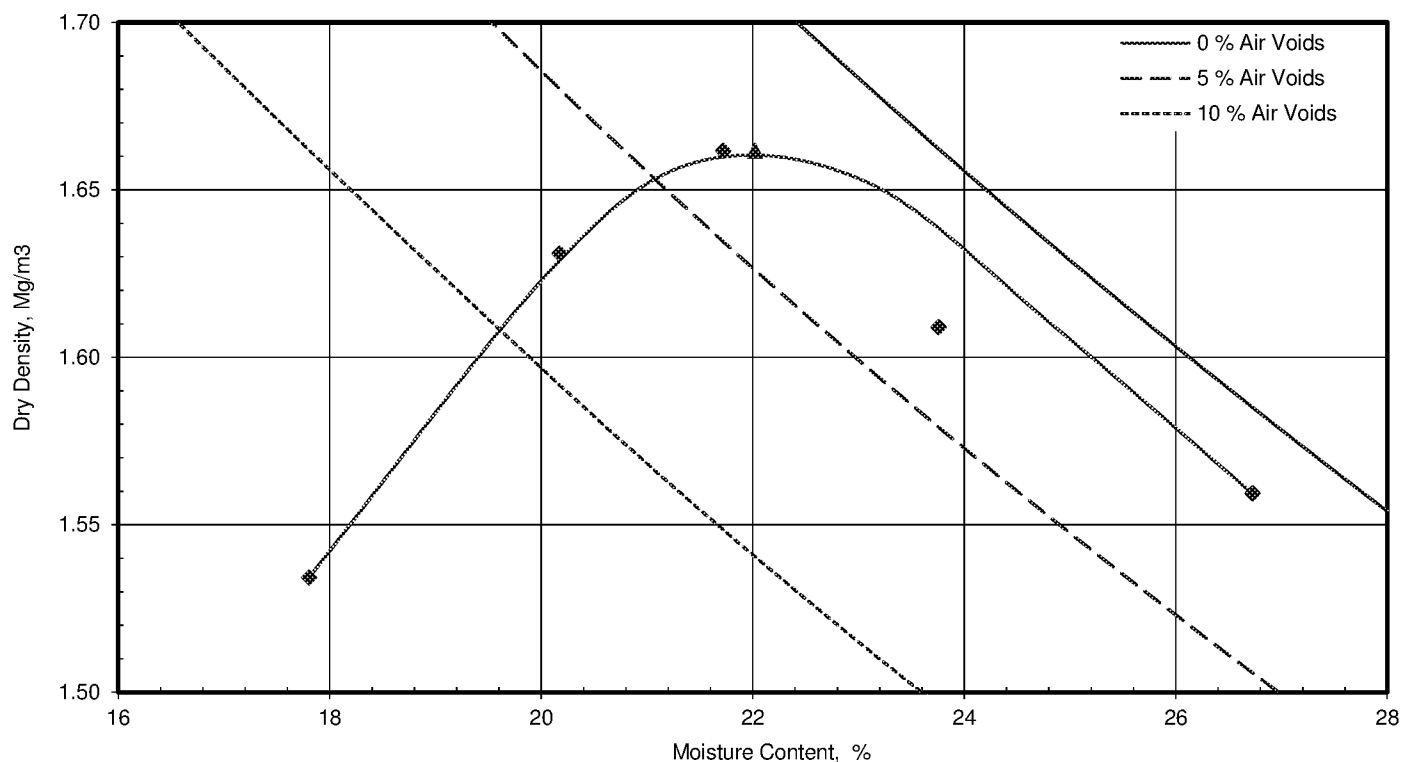
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**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 29/04/2021  
Date Received: 04/05/2021  
Date Tested: 26/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868973  
Hole No.: TP205-TP206  
Sample Reference: B8  
Sample Description: Light brown silty CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 18   | 20   | 22   | 24   | 27   |
| Dry Density          | Mg/m³ | 1.53 | 1.63 | 1.66 | 1.61 | 1.56 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 9                    |
| Material Retained on 20.0 mm Sieve | 27                   |
| Particle Density - Assumed         | 2.75                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.66                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 22 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd



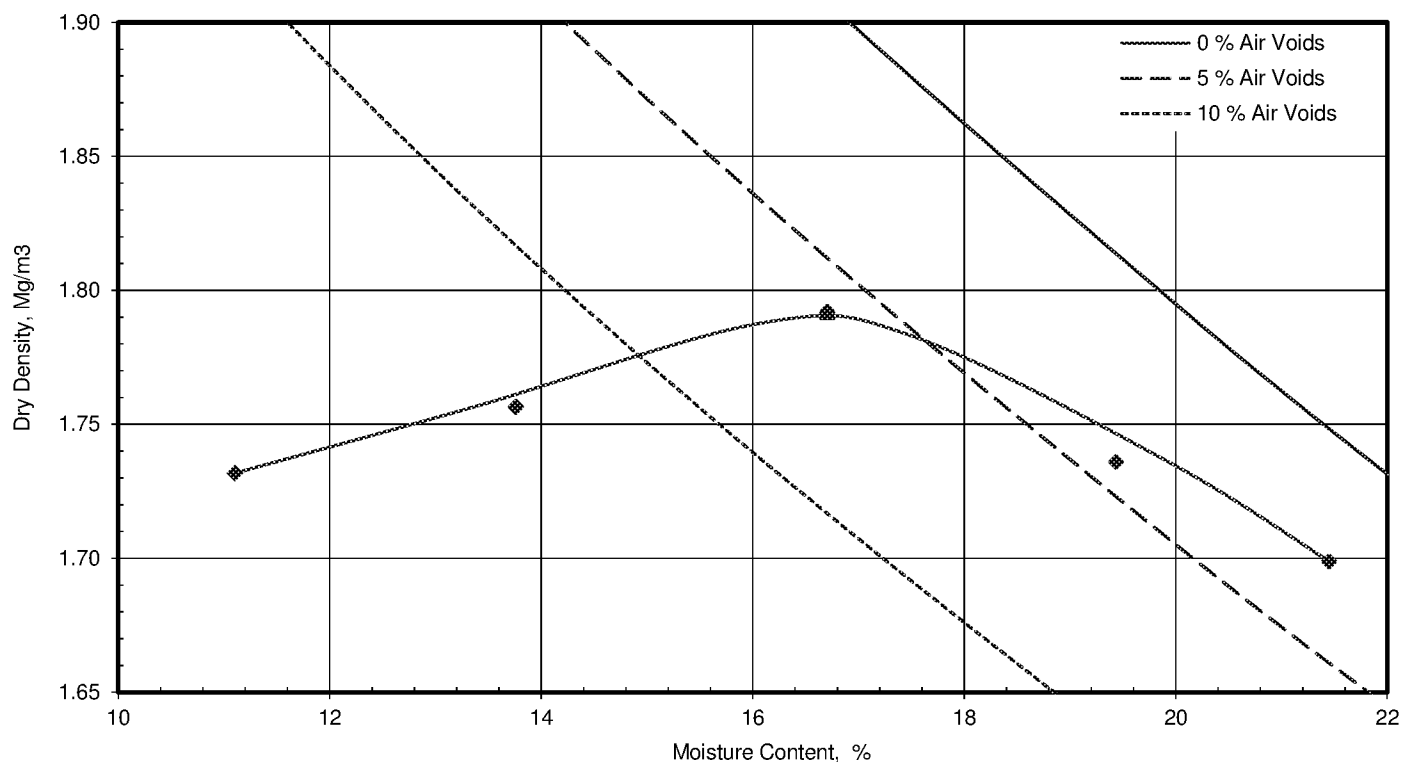
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**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Sample Description: Light brown silty CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 11   | 14   | 17   | 19   | 21   |
| Dry Density Mg/m³    | 1.73 | 1.76 | 1.79 | 1.74 | 1.70 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 9                    |
| Material Retained on 20.0 mm Sieve % | 27                   |
| Particle Density - Assumed Mg/m³     | 2.80                 |
| As received Moisture Content %       | 19                   |
| Maximum Dry Density Mg/m³            | 1.79                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 17 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2.0% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

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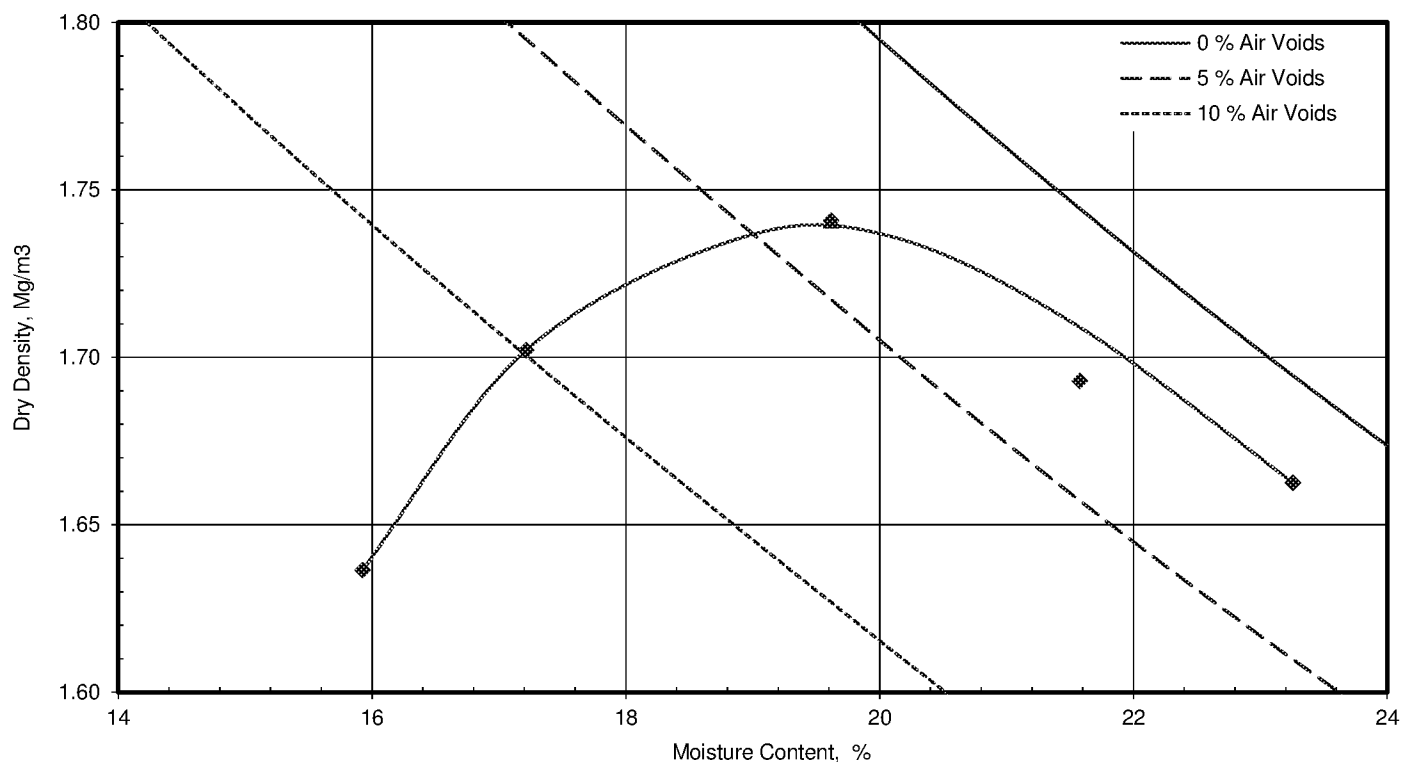
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**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Sample Description: Light brown silty CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 16   | 17   | 20   | 22   | 23   |
| Dry Density Mg/m³    | 1.64 | 1.70 | 1.74 | 1.69 | 1.66 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 9                    |
| Material Retained on 20.0 mm Sieve % | 27                   |
| Particle Density - Assumed Mg/m³     | 2.80                 |
| As received Moisture Content %       | 19                   |
| Maximum Dry Density Mg/m³            | 1.74                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 20 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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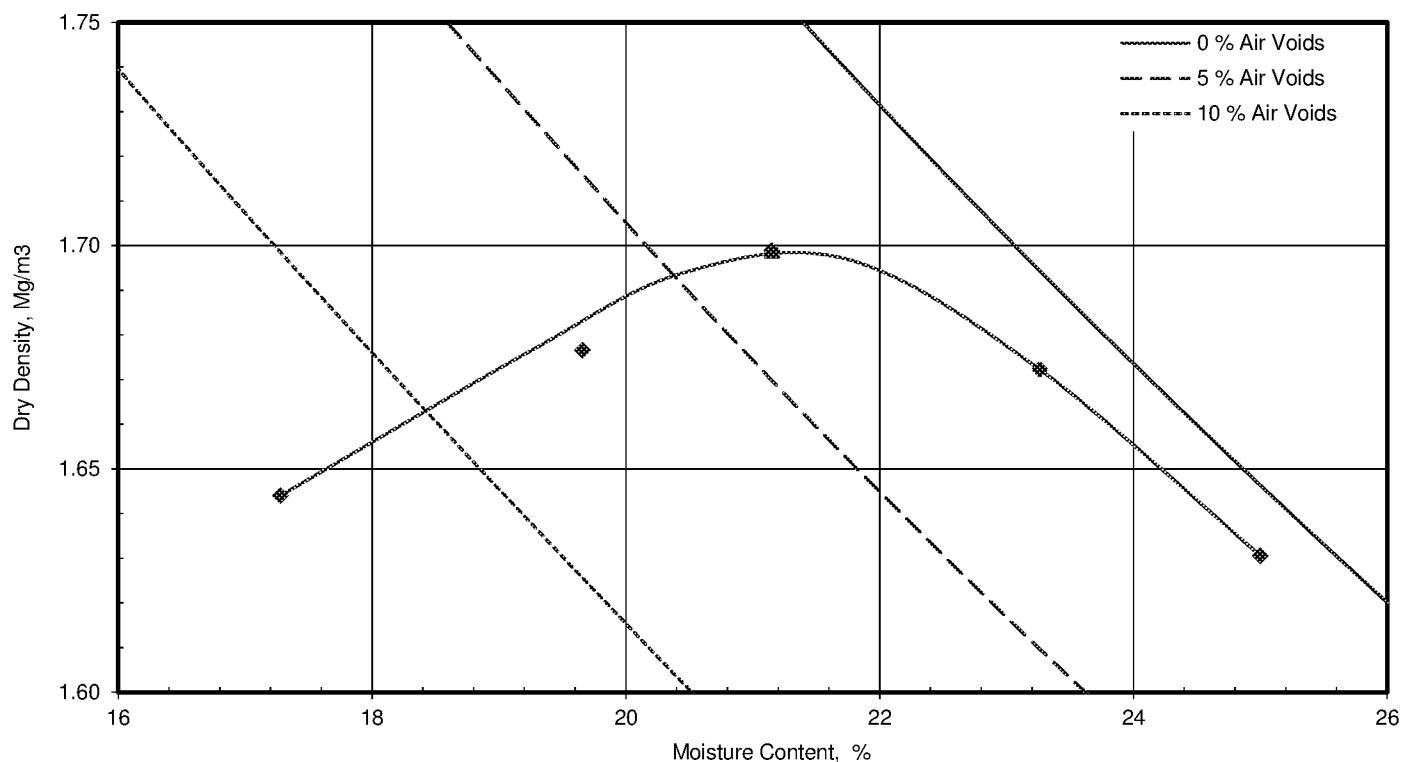
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**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Sample Description: Light brown silty CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. | 1     | 2    | 3    | 4    | 5    |      |
| Moisture Content     | %     | 17   | 20   | 21   | 23   | 25   |
| Dry Density          | Mg/m³ | 1.64 | 1.68 | 1.70 | 1.67 | 1.63 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 9                    |
| Material Retained on 20.0 mm Sieve | 27                   |
| Particle Density - Assumed         | 2.80                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.70                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 21 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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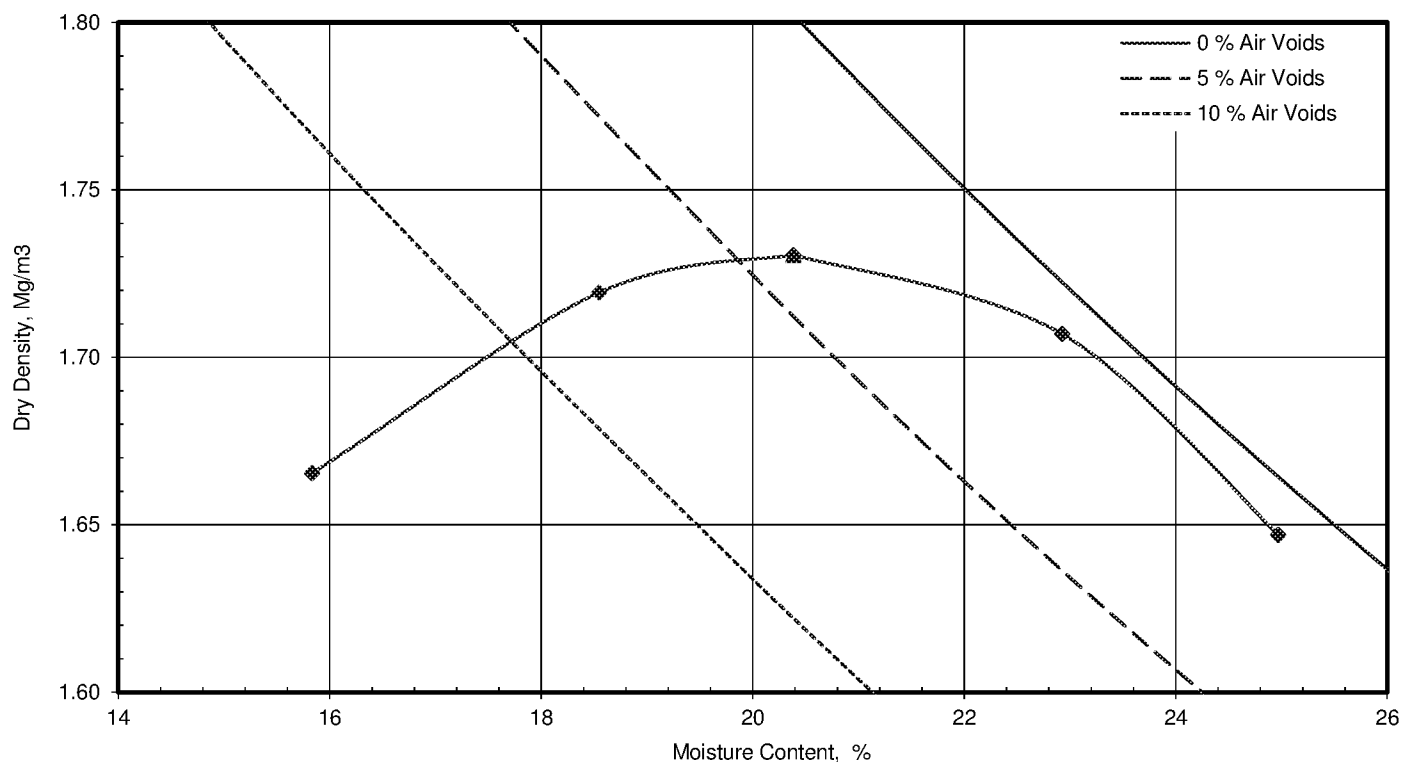
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868974  
Hole No.: TP219-TP204  
Sample Reference: B6  
Sample Description: Light brown clayey CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 16   | 19   | 20   | 23   | 25   |
| Dry Density          | Mg/m³ | 1.67 | 1.72 | 1.73 | 1.71 | 1.65 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 23                   |
| Material Retained on 20.0 mm Sieve | %     | 36                   |
| Particle Density - Assumed         | Mg/m³ | 2.85                 |
| As received Moisture Content       | %     | 23                   |
| Maximum Dry Density                | Mg/m³ | 1.73                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 20 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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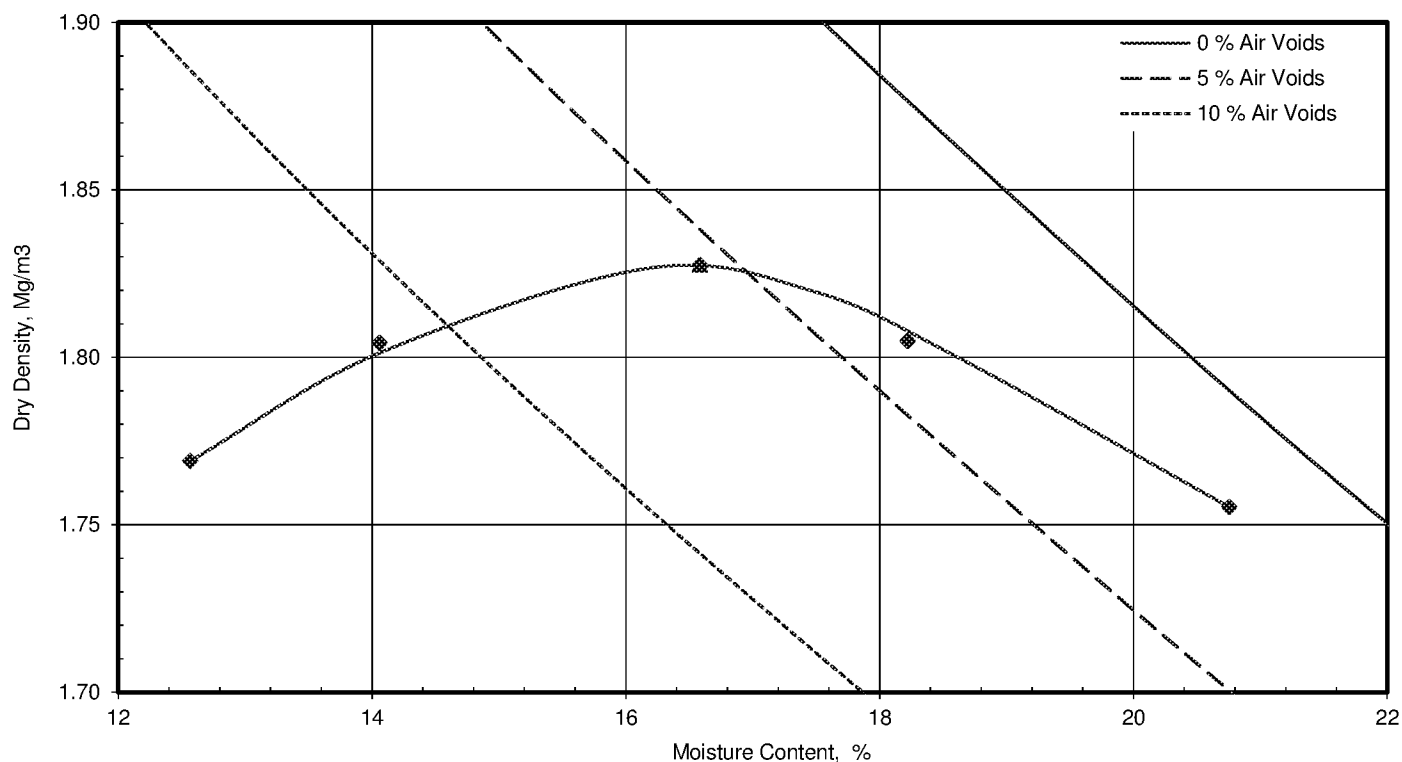
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Sample Description: Light brown clayey CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 13   | 14   | 17   | 18   | 21   |
| Dry Density          | Mg/m³ | 1.77 | 1.80 | 1.83 | 1.80 | 1.76 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 23                   |
| Material Retained on 20.0 mm Sieve | %     | 36                   |
| Particle Density - Assumed         | Mg/m³ | 2.85                 |
| As received Moisture Content       | %     | 23                   |
| Maximum Dry Density                | Mg/m³ | 1.83                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 17 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request. OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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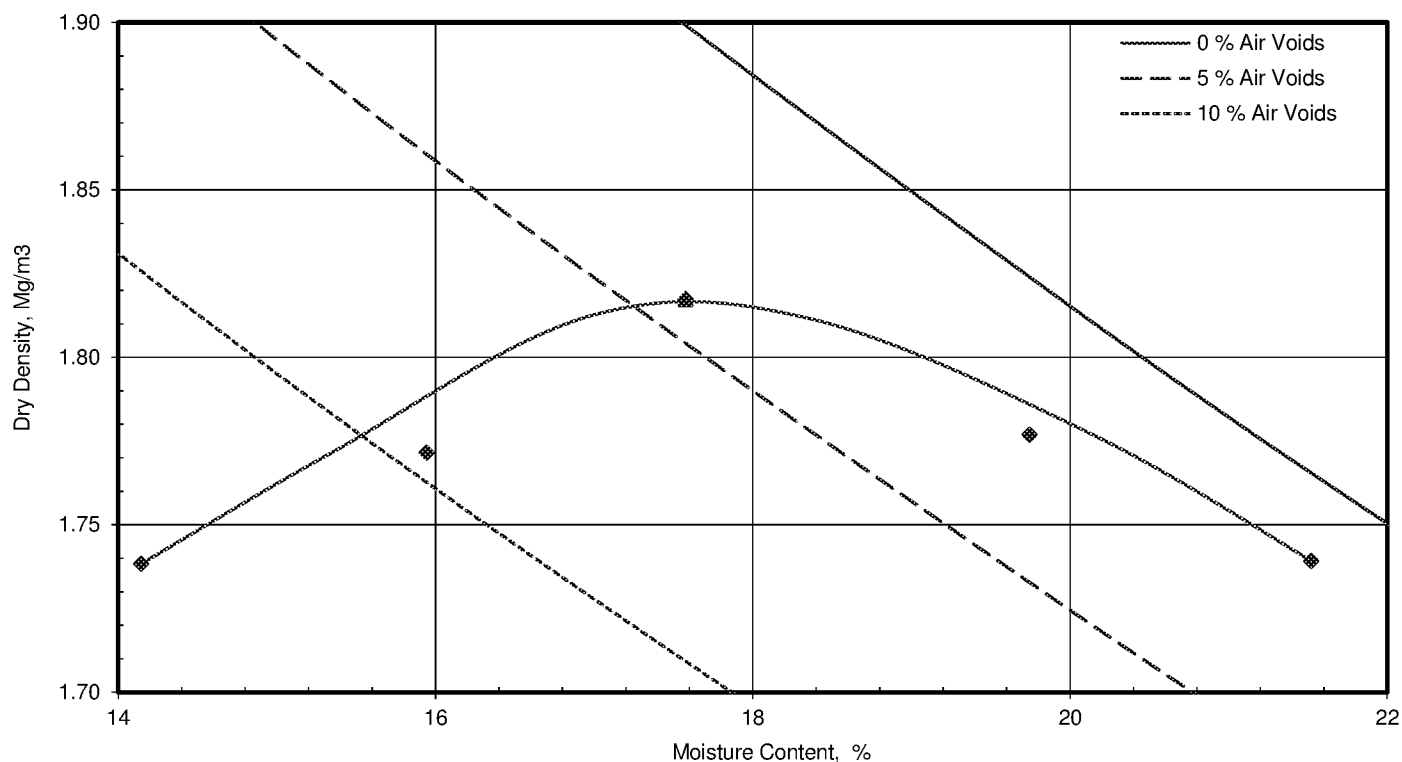
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Sample Description: Light brown clayey CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 14   | 16   | 18   | 20   | 22   |
| Dry Density          | Mg/m³ | 1.74 | 1.77 | 1.82 | 1.78 | 1.74 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 23                   |
| Material Retained on 20.0 mm Sieve | %     | 36                   |
| Particle Density - Assumed         | Mg/m³ | 2.85                 |
| As received Moisture Content       | %     | 23                   |
| Maximum Dry Density                | Mg/m³ | 1.82                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 18 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request. OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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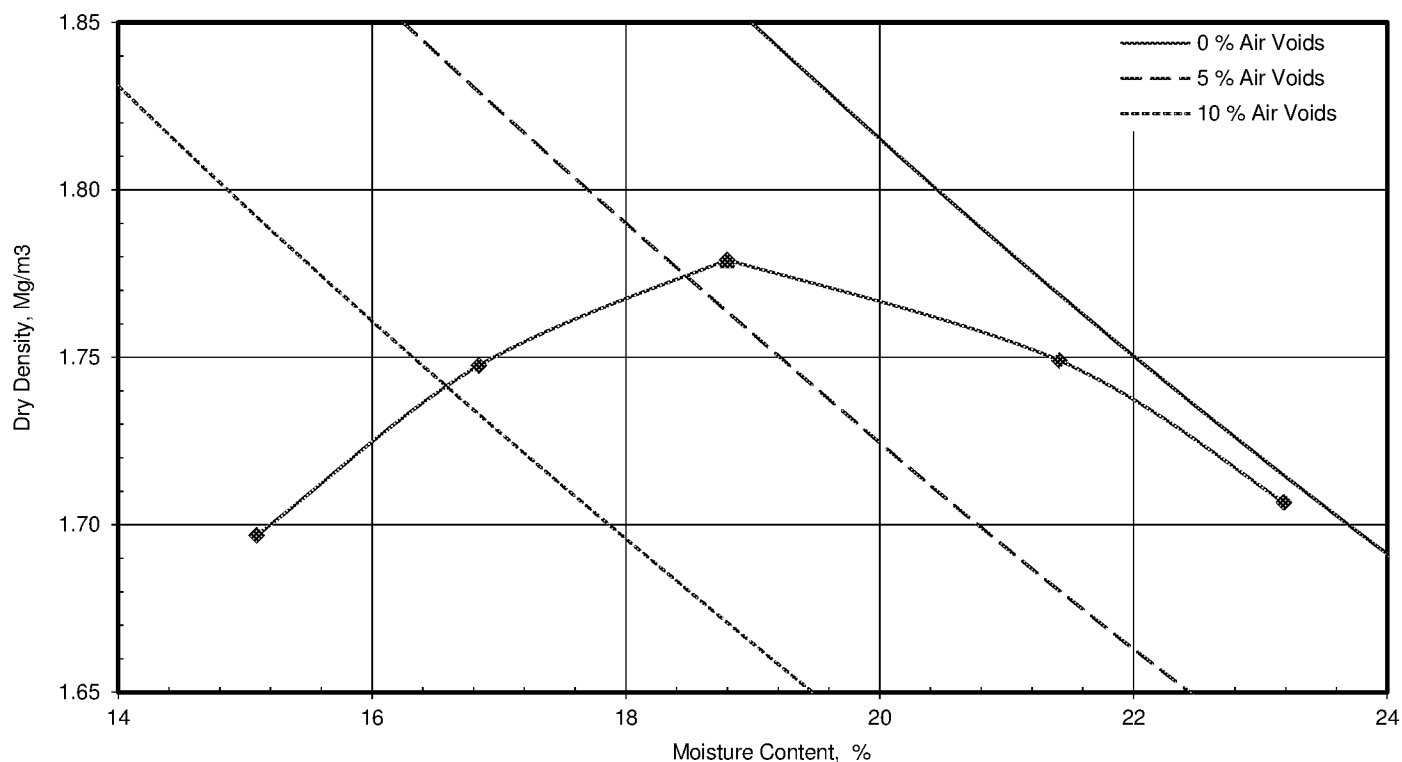
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Sample Description: Light brown clayey CHALK  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 15   | 17   | 19   | 21   | 23   |
| Dry Density          | Mg/m³ | 1.70 | 1.75 | 1.78 | 1.75 | 1.71 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 23                   |
| Material Retained on 20.0 mm Sieve | 150                  |
| Particle Density - Assumed         | 2.85                 |
| As received Moisture Content       | 23                   |
| Maximum Dry Density                | 1.78                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 19 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request. OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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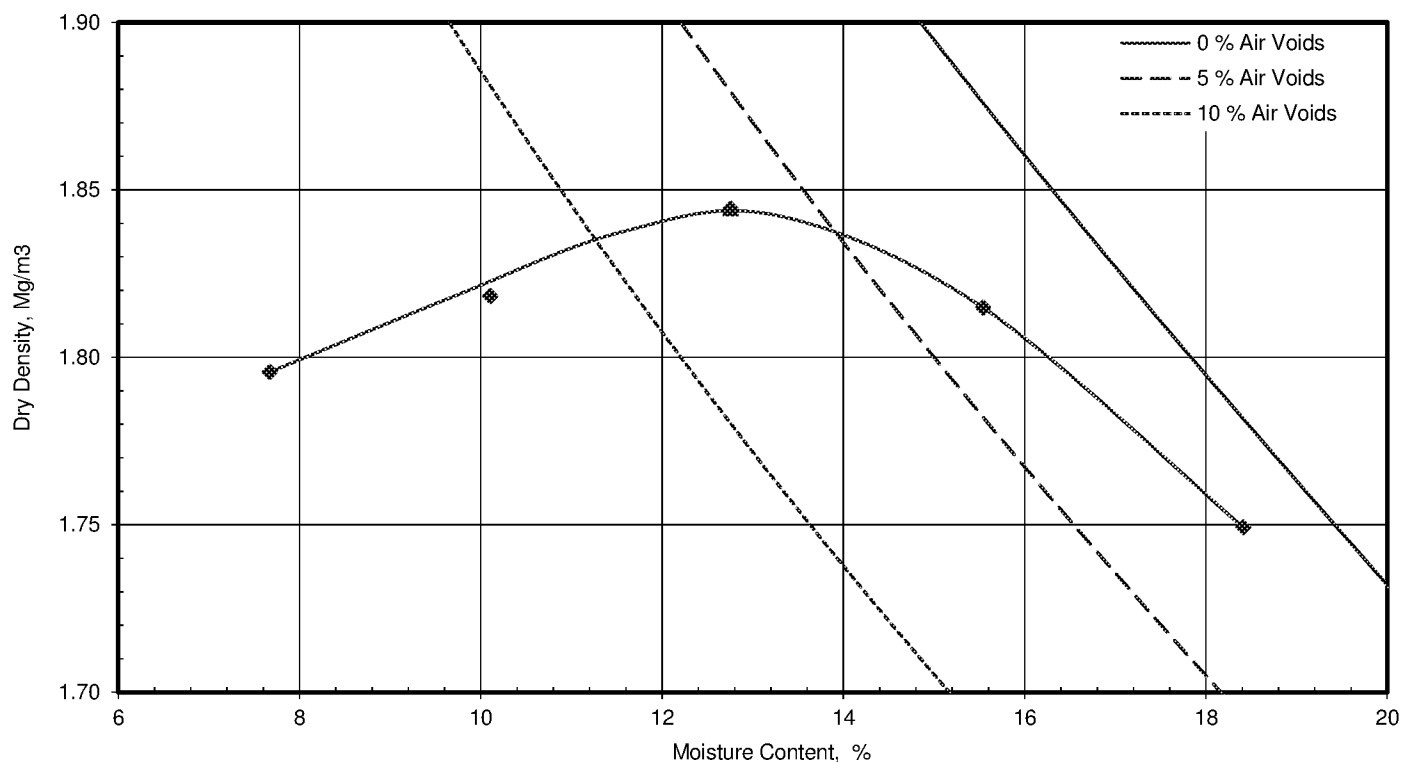
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 26/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868975  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Sample Description: Brown slightly gravelly clayey very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 7.7  | 10   | 13   | 16   | 18   |
| Dry Density          | Mg/m³ | 1.80 | 1.82 | 1.84 | 1.81 | 1.75 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 0                    |
| Material Retained on 20.0 mm Sieve | %     | 0                    |
| Particle Density - Assumed         | Mg/m³ | 2.65                 |
| As received Moisture Content       | %     | 19                   |
| Maximum Dry Density                | Mg/m³ | 1.84                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 13 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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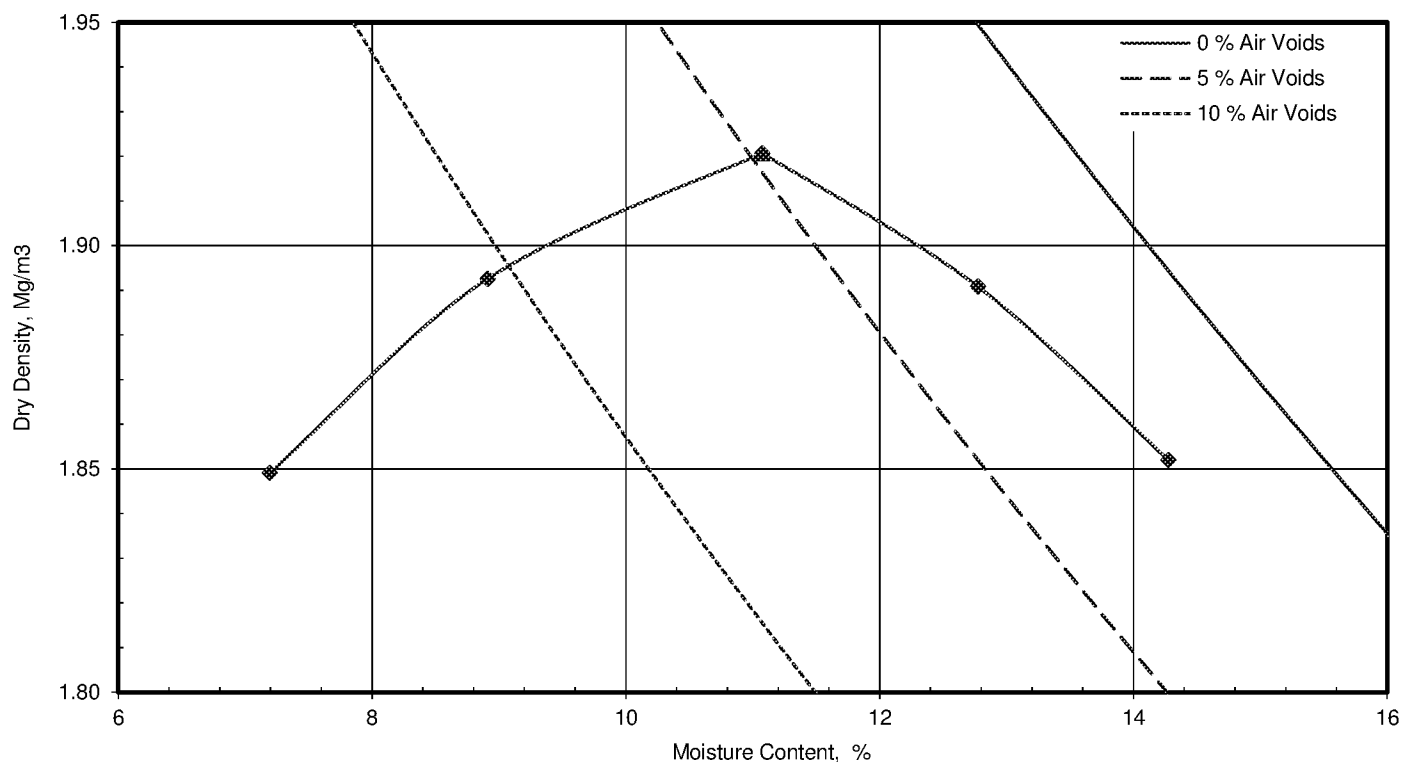
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Sample Description: Brown slightly gravelly clayey very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 7.2  | 8.9  | 11   | 13   | 14   |
| Dry Density          | Mg/m³ | 1.85 | 1.89 | 1.92 | 1.89 | 1.85 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 0                    |
| Material Retained on 20.0 mm Sieve | %     | 0                    |
| Particle Density - Assumed         | Mg/m³ | 2.60                 |
| As received Moisture Content       | %     | 19                   |
| Maximum Dry Density                | Mg/m³ | 1.92                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 11 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczeban Bielawicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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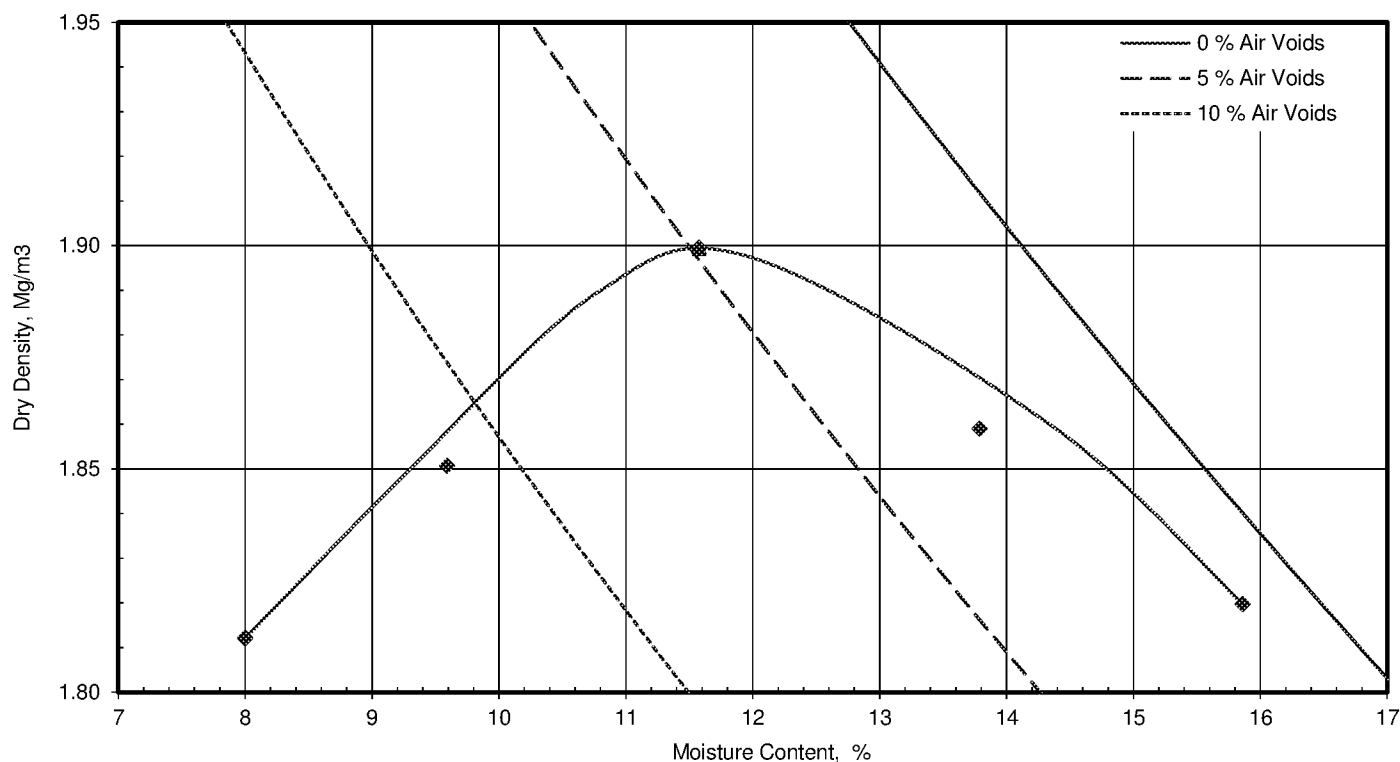
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Sample Description: Brown slightly gravelly clayey very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 8.0  | 9.6  | 12   | 14   | 16   |
| Dry Density          | Mg/m³ | 1.81 | 1.85 | 1.90 | 1.86 | 1.82 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.60                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.90                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 12 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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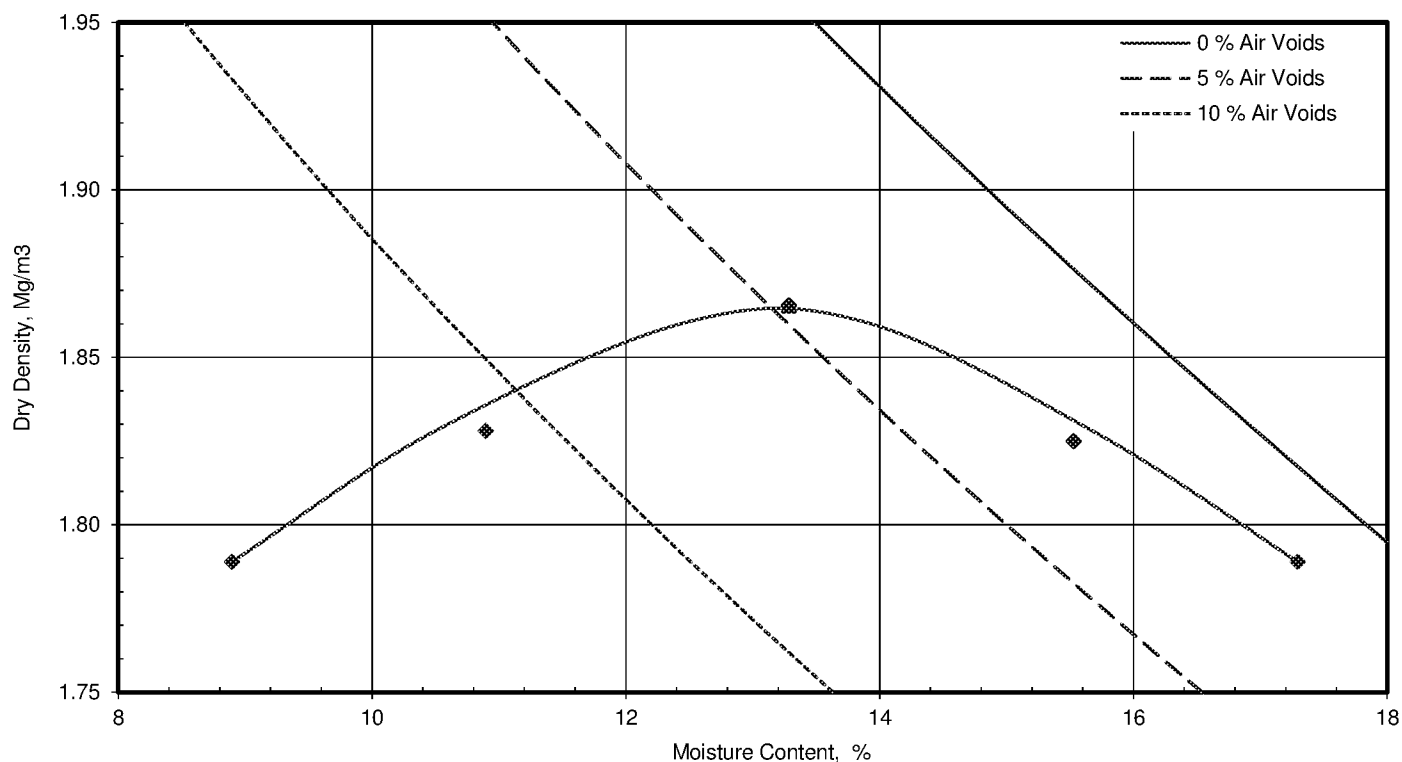
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Sample Description: Brown slightly gravelly clayey very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 8.9  | 11   | 13   | 16   | 17   |
| Dry Density          | Mg/m³ | 1.79 | 1.83 | 1.87 | 1.82 | 1.79 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 0                    |
| Material Retained on 20.0 mm Sieve | 0                    |
| Particle Density - Assumed         | 2.65                 |
| As received Moisture Content       | 19                   |
| Maximum Dry Density                | 1.87                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 13 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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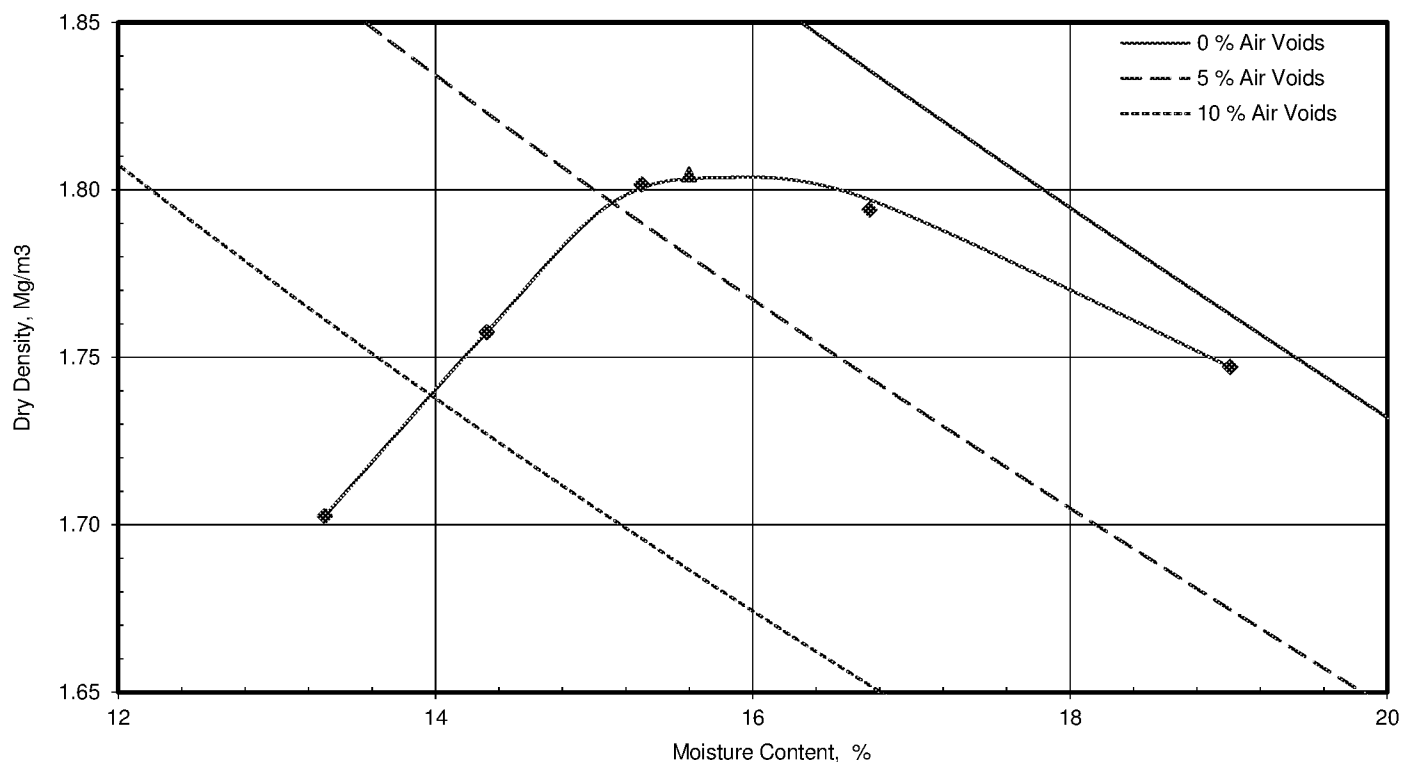
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 30/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868976  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Sample Description: Light brown clayey very gravelly very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Compaction Point No. | 1    | 2    | 3    | 4    | 5    |
|----------------------|------|------|------|------|------|
| Moisture Content %   | 13   | 14   | 15   | 17   | 19   |
| Dry Density Mg/m³    | 1.70 | 1.76 | 1.80 | 1.79 | 1.75 |

| Mould Type                           | CBR                  |
|--------------------------------------|----------------------|
| Samples Used                         | Single sample tested |
| Material Retained on 37.5 mm Sieve % | 6                    |
| Material Retained on 20.0 mm Sieve % | 13                   |
| Particle Density - Assumed Mg/m³     | 2.65                 |
| As received Moisture Content %       | 17                   |
| Maximum Dry Density Mg/m³            | 1.80                 |

|                            |    |
|----------------------------|----|
| Optimum Moisture Content % | 16 |
|----------------------------|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Page 1 of 1

Date Reported: 28/07/2021

GF 109.21



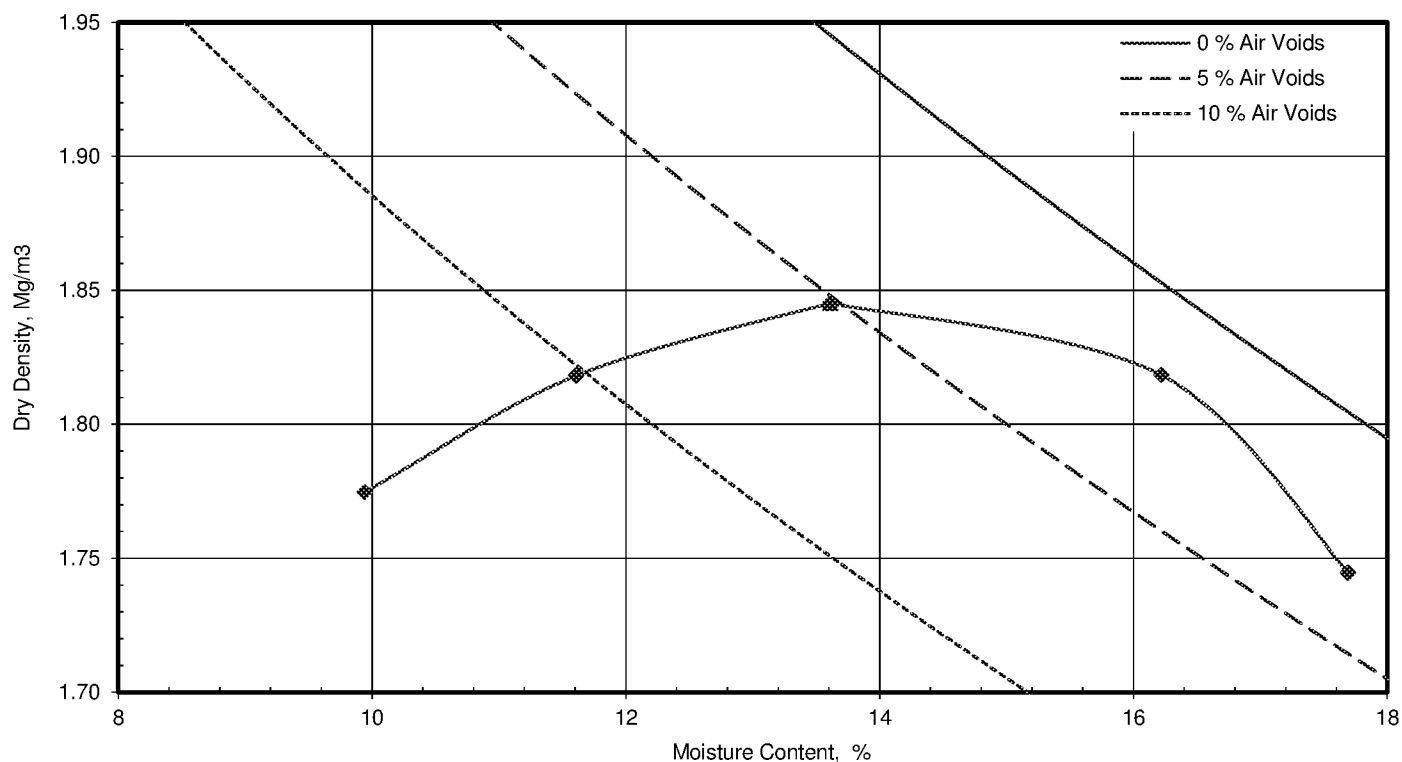
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Sample Description: Light brown clayey very gravelly very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 9.9  | 12   | 14   | 16   | 18   |
| Dry Density          | Mg/m³ | 1.77 | 1.82 | 1.85 | 1.82 | 1.74 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | 6                    |
| Material Retained on 20.0 mm Sieve | 13                   |
| Particle Density - Assumed         | 2.65                 |
| As received Moisture Content       | 17                   |
| Maximum Dry Density                | 1.85                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 14 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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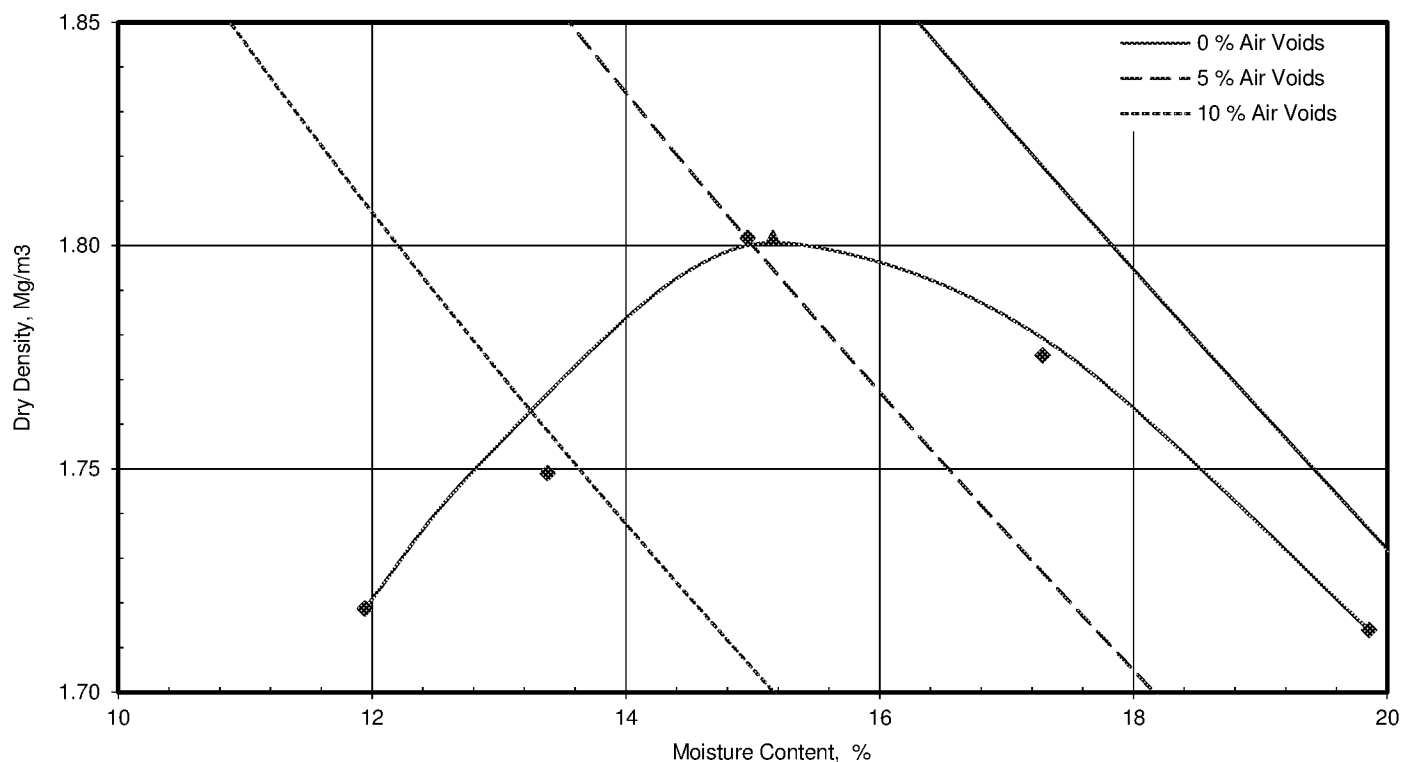
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Sample Description: Light brown clayey very gravelly very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 12   | 13   | 15   | 17   | 20   |
| Dry Density          | Mg/m³ | 1.72 | 1.75 | 1.80 | 1.78 | 1.71 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | CBR                  |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 6                    |
| Material Retained on 20.0 mm Sieve | %     | 13                   |
| Particle Density - Assumed         | Mg/m³ | 2.65                 |
| As received Moisture Content       | %     | 17                   |
| Maximum Dry Density                | Mg/m³ | 1.80                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 15 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Zdzisław Bielawicz  
L Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 109.21



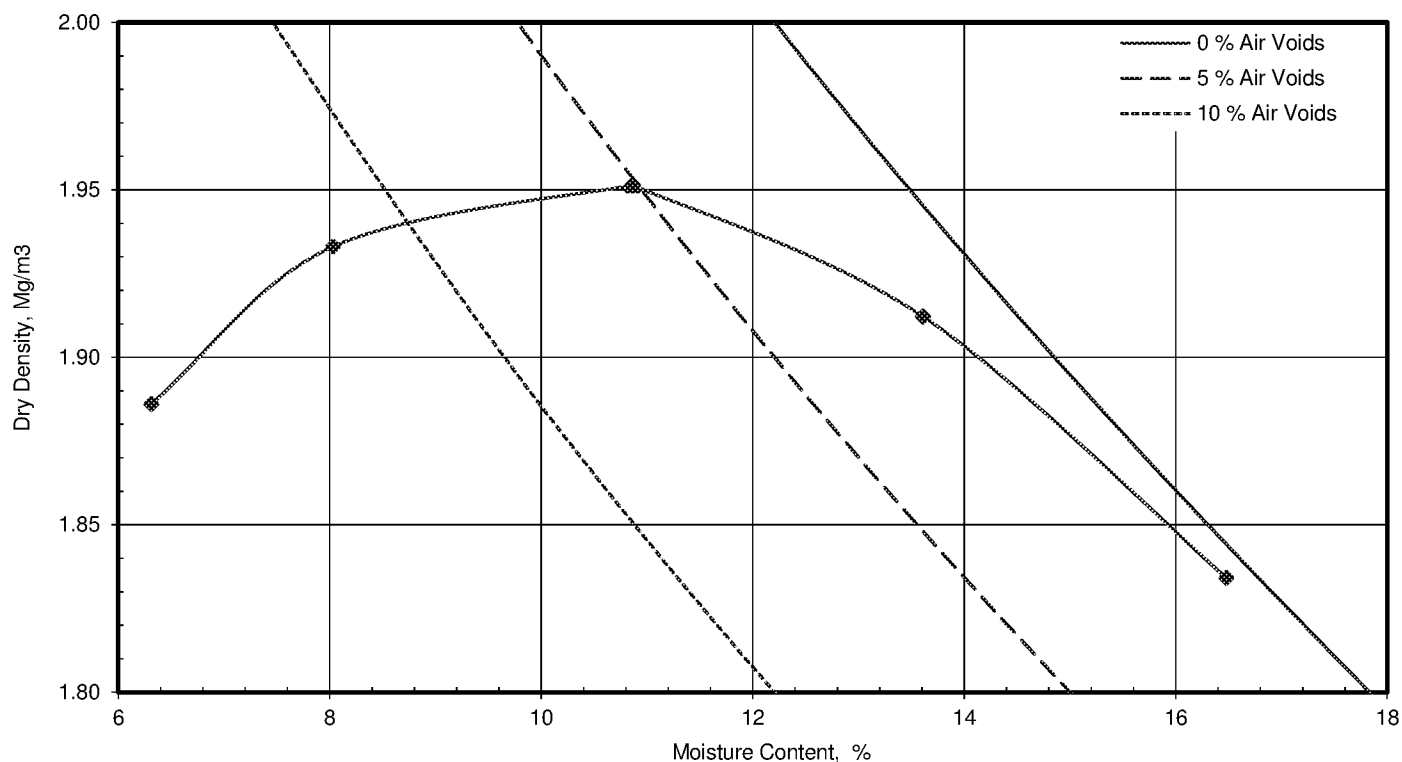
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: Not Given  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Sample Description: Light brown clayey very gravelly very sandy SILT  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Compaction Point No. | 1          | 2    | 3    | 4    | 5    |
|----------------------|------------|------|------|------|------|
| Moisture Content     | % 6.3      | 8.0  | 11   | 14   | 16   |
| Dry Density          | Mg/m³ 1.89 | 1.93 | 1.95 | 1.91 | 1.83 |

| Mould Type                         | CBR                  |
|------------------------------------|----------------------|
| Samples Used                       | Single sample tested |
| Material Retained on 37.5 mm Sieve | % 6                  |
| Material Retained on 20.0 mm Sieve | % 13                 |
| Particle Density - Assumed         | Mg/m³ 2.65           |
| As received Moisture Content       | % 17                 |
| Maximum Dry Density                | Mg/m³ 1.95           |

|                          |      |
|--------------------------|------|
| Optimum Moisture Content | % 11 |
|--------------------------|------|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: OMC tested with 2% of LIME addition.  
Re-issue 2: Site Address amended.

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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 109.21

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868955  
Hole No.: TP201  
Sample Reference: B4  
Soil Description: Brown slightly gravelly sandy clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content | Shear Vane Reading |     |     |     |         |     |
|------------------|--------------------|-----|-----|-----|---------|-----|
|                  | 1                  | 2   | 3   | 4   | Average | Tv  |
| %                | kPa                | kPa | kPa | kPa | kPa     | kPa |
| 15               | UTP                | UTP | UTP | UTP | UTP     |     |
| 16               | UTP                | UTP | UTP | UTP | UTP     |     |
| 18               | 96                 | 90  | 84  | 86  | 89      |     |
| 21               | 64                 | 56  | 56  | 66  | 61      |     |
| 24               | 22                 | 24  | 28  | 30  | 26      |     |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868957  
Hole No.: TP218  
Sample Reference: B9  
Soil Description: Light brown gravelly clayey very sandy SILT with fragments of chalk

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | 106                | 94       | 102      | 100      | 101            |           |
| 18                    | 62                 | 64       | 60       | 58       | 61             |           |
| 20                    | 38                 | 40       | 36       | 38       | 38             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868958  
Hole No.: TP205  
Sample Reference: B4  
Soil Description: Brown gravelly sandy clayey SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | 126                | 114      | 120      | 118      | 120            |           |
| 19                    | 66                 | 62       | 68       | 66       | 66             |           |
| 21                    | 70                 | 72       | 60       | 64       | 67             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868959  
Hole No.: TP205  
Sample Reference: B6  
Soil Description: Cream colour sandy silty clayey GRAVEL with fragments of chalk

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                |           |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa | Tv<br>kPa |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | 130                | 136      | 132      | 136      | 134            |           |
| 19                    | 28                 | 26       | 30       | 32       | 29             |           |
| 21                    | 104                | 98       | 108      | 110      | 105            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868960  
Hole No.: TP204  
Sample Reference: B8  
Soil Description: Cream colour slightly gravelly CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

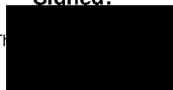
| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 18                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 21                    | 80                 | 94       | 84       | 72       | 83             |           |
| 23                    | 34                 | 36       | 46       | 26       | 36             |           |
| 25                    | 10                 | 8        | 8        | 6        | 8              |           |
| 28                    | 2                  | 4        | 4        | 4        | 4              |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Signed:



Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 26/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868962  
Hole No.: TP212  
Sample Reference: B5  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 10                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | >150               | >150     | >150     | >150     | 150            |           |
| 20                    | 68                 | 66       | 78       | 68       | 70             |           |
| 22                    | 22                 | 24       | 20       | 20       | 22             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868965  
Hole No.: TP218  
Sample Reference: B4  
Soil Description: Brown sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 9.2                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 18                    | 92                 | 78       | 82       | 104      | 89             |           |
| 21                    | 64                 | 66       | 62       | 64       | 64             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

Signed:

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868966  
Hole No.: TP209  
Sample Reference: B10  
Soil Description: Cream colour sandy clayey very gravelly SILT with fragments of chalk

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 16                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 19                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 21                    | 30                 | 20       | 22       | 30       | 26             |           |
| 23                    | 12                 | 10       | 8        | 12       | 11             |           |
| 25                    | 6                  | 8        | 4        | 4        | 6              |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
L Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868969  
Hole No.: TP209  
Sample Reference: B5  
Soil Description: Brown sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | 136                | 128      | 120      | 130      | 129            |           |
| 18                    | 100                | 90       | 98       | 102      | 98             |           |
| 21                    | 58                 | 64       | 62       | 66       | 63             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868970  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Soil Description: Brown gravelly sandy clayey SILT with fragments of flintstone

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | 130                | 128      | 136      | 140      | 134            |           |
| 16                    | 90                 | 94       | 96       | 88       | 92             |           |
| 19                    | 50                 | 50       | 52       | 50       | 51             |           |
| 21                    | 26                 | 20       | 26       | 20       | 23             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
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Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Soil Description: Brown gravelly sandy clayey SILT with fragments of flintstone

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 8.7                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 9.8                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 11                    | >150               | >150     | >150     | >150     | 150            |           |
| 13                    | 120                | 122      | 118      | 126      | 122            |           |
| 16                    | 100                | 96       | 96       | 92       | 96             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Soil Description: Brown gravelly sandy clayey SILT with fragments of flintstone

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                |           |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa | Tv<br>kPa |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | >150               | >150     | >150     | >150     | 150            |           |
| 17                    | 110                | 116      | 116      | 112      | 114            |           |
| 19                    | 66                 | 62       | 60       | 60       | 62             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868970\_1  
Hole No.: TP217-TP201  
Sample Reference: B6-B8  
Soil Description: Brown gravelly sandy clayey SILT with fragments of flintstone

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | >150               | >150     | >150     | >150     | 150            |           |
| 16                    | 120                | 116      | 118      | 124      | 120            |           |
| 19                    | 80                 | 88       | 86       | 84       | 85             |           |
| 21                    | 60                 | 56       | 56       | 58       | 58             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
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Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868971  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | 110      | 112      | UTP            |           |
| 17                    | 66                 | 44       | 56       | 42       | 52             |           |
| 20                    | 30                 | 30       | 36       | 32       | 32             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 8.4                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 10                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | >150               | >150     | >150     | >150     | 150            |           |
| 16                    | 136                | 130      | 132      | 132      | 133            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
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Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 9.5                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | 130                | 132      | 136      | 134      | 133            |           |
| 16                    | 106                | 106      | 102      | 104      | 105            |           |
| 18                    | 88                 | 80       | 80       | 86       | 84             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

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Environmental Science

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Client: Delta-Simons  
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Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868971\_1  
Hole No.: TP219-TP203  
Sample Reference: B4-B6  
Soil Description: Brown slightly gravelly sandy very clayey SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | 112                | 110      | 108      | 108      | 110            |           |
| 17                    | 88                 | 80       | 82       | 84       | 84             |           |
| 19                    | 50                 | 48       | 48       | 52       | 50             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
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for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868972  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Soil Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | 140                | 144      | 132      | 136      | 138            |           |
| 19                    | 96                 | 100      | 90       | 92       | 95             |           |
| 22                    | 30                 | 26       | 32       | 24       | 28             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz

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Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Soil Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 18                    | >150               | >150     | >150     | >150     | 150            |           |
| 20                    | 140                | 136      | 130      | 132      | 135            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 2: Site Address amended.

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Bielatowicz  
Head of Geotechnical Section  
on behalf of i2 Analytical Ltd

Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 09/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Soil Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | >150               | >150     | >150     | >150     | 150            |           |
| 19                    | >150               | >150     | >150     | >150     | 150            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

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Maciej Bielawicz  
Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 09/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868972\_1  
Hole No.: TP220-TP206  
Sample Reference: B4-B6  
Soil Description: Light brown clayey very gravelly very sandy SILT with fragments of chalk

Depth Top [m]: 1.00  
Depth Base [m]: 1.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | >150               | >150     | >150     | >150     | 150            |           |
| 19                    | 102                | 106      | 106      | 110      | 106            |           |
| 20                    | 44                 | 46       | 48       | 50       | 47             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 26/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868973  
Hole No.: TP205-TP206  
Sample Reference: B8  
Soil Description: Light brown silty CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content | Shear Vane Reading |     |     |     |         |     |
|------------------|--------------------|-----|-----|-----|---------|-----|
|                  | 1                  | 2   | 3   | 4   | Average | Tv  |
| %                | kPa                | kPa | kPa | kPa | kPa     | kPa |
| 18               | UTP                | UTP | UTP | UTP | UTP     |     |
| 20               | UTP                | UTP | UTP | UTP | UTP     |     |
| 22               | 54                 | 48  | 50  | 52  | 51      |     |
| 24               | 12                 | 10  | 8   | 12  | 11      |     |
| 27               | 38                 | 42  | 46  | 44  | 43      |     |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Soil Description: Light brown silty CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content | Shear Vane Reading |      |      |      |         |     |
|------------------|--------------------|------|------|------|---------|-----|
|                  | 1                  | 2    | 3    | 4    | Average | Tv  |
| %                | kPa                | kPa  | kPa  | kPa  | kPa     | kPa |
| 11               | UTP                | UTP  | UTP  | UTP  | UTP     |     |
| 14               | UTP                | UTP  | UTP  | UTP  | UTP     |     |
| 17               | UTP                | UTP  | UTP  | UTP  | UTP     |     |
| 19               | >150               | >150 | >150 | >150 | 150     |     |
| 22               | 102                | 102  | 100  | 90   | 99      |     |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Soil Description: Light brown silty CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content | Shear Vane Reading |     |     |     |         |     |
|------------------|--------------------|-----|-----|-----|---------|-----|
|                  | 1                  | 2   | 3   | 4   | Average | Tv  |
| %                | kPa                | kPa | kPa | kPa | kPa     | kPa |
| 16               | UTP                | UTP | UTP | UTP | UTP     |     |
| 17               | UTP                | UTP | UTP | UTP | UTP     |     |
| 20               | 102                | 100 | 98  | 90  | 98      |     |
| 22               | 66                 | 62  | 62  | 64  | 64      |     |
| 23               | 30                 | 24  | 30  | 30  | 29      |     |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868973\_1  
Hole No.: TP205-TP206  
Sample Reference: B8  
Soil Description: Light brown silty CHALK

Depth Top [m]: 2.90  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content | Shear Vane Reading |     |     |     |         |     |
|------------------|--------------------|-----|-----|-----|---------|-----|
|                  | 1                  | 2   | 3   | 4   | Average | Tv  |
| %                | kPa                | kPa | kPa | kPa | kPa     | kPa |
| 17               | UTP                | UTP | UTP | UTP | UTP     |     |
| 20               | UTP                | UTP | UTP | UTP | UTP     |     |
| 21               | 94                 | 90  | 90  | 88  | 91      |     |
| 23               | 16                 | 16  | 18  | 20  | 18      |     |
| 25               | 40                 | 50  | 44  | 46  | 45      |     |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868974  
Hole No.: TP219-TP204  
Sample Reference: B6  
Soil Description: Light brown clayey CHALK

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 16                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 19                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 20                    | 120                | 112      | 100      | 108      | 110            |           |
| 23                    | 88                 | 80       | 84       | 82       | 84             |           |
| 25                    | 66                 | 64       | 60       | 60       | 63             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 1% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Soil Description: Light brown clayey CHALK

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 18                    | >150               | >150     | >151     | >152     | 150            |           |
| 21                    | 130                | 132      | 132      | 134      | 132            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Soil Description: Light brown clayey CHALK

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                |           |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa | Tv<br>kPa |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 18                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 20                    | 136                | 140      | 140      | 136      | 138            |           |
| 22                    | 120                | 124      | 124      | 122      | 123            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 08/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868974\_1  
Hole No.: TP219-TP204  
Sample Reference: B6  
Soil Description: Light brown clayey CHALK

Depth Top [m]: 2.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 19                    | 138                | 136      | 136      | 134      | 136            |           |
| 21                    | 118                | 122      | 120      | 124      | 121            |           |
| 23                    | 90                 | 88       | 86       | 88       | 88             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielatowicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 26/05/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868975  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Soil Description: Brown slightly gravelly clayey very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 7.7                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 10                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | 88                 | 120      | 110      | 120      | 110            |           |
| 18                    | 36                 | 38       | 34       | 38       | 37             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Soil Description: Brown slightly gravelly clayey very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                |           |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa | Tv<br>kPa |
| 7.2                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 8.9                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | >150               | >150     | >150     | >150     | 150            |           |
| 14                    | 130                | 136      | 132      | 134      | 133            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Soil Description: Brown slightly gravelly clayey very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 8.0                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 9.6                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | >150               | >150     | >150     | >150     | 150            |           |
| 16                    | 100                | 106      | 112      | 110      | 107            |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

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Dr. Jan Bielawicz  
Deputy Head of Geotechnical Section  
on behalf of i2 Analytical Ltd

Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868975\_1  
Hole No.: TP214-TP210  
Sample Reference: B5-B6  
Soil Description: Brown slightly gravelly clayey very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 3.00  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                |           |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa | Tv<br>kPa |
| 8.9                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | 120                | 122      | 124      | 124      | 123            |           |
| 17                    | 80                 | 86       | 80       | 82       | 82             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Signed:

Szczepan Bielawicz  
PL Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 01/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868976  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Soil Description: Light brown clayey very gravelly very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 17                    | 88                 | 78       | 72       | 82       | 80             |           |
| 19                    | 34                 | 40       | 40       | 36       | 38             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielatowicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Soil Description: Light brown clayey very gravelly very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 6.3                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 8.0                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 11                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | >150               | >150     | >150     | >150     | 150            |           |
| 17                    | 100                | 96       | 90       | 90       | 94             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Grzegorz Bielawicz  
Deputy Head of Geotechnical Section  
on behalf of i2 Analytical Ltd

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Reported: 28/07/2021

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# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Soil Description: Light brown clayey very gravelly very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 13                    | >150               | >150     | >150     | >150     | 150            |           |
| 15                    | 80                 | 66       | 80       | 64       | 73             |           |
| 17                    | 30                 | 28       | 26       | 26       | 28             |           |
| 20                    | 20                 | 18       | 22       | 24       | 21             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

Signed:

Szczepan Bielawicz  
L Deputy Head of Geotechnical Section  
for and on behalf of i2 Analytical Ltd

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Date Reported: 28/07/2021

GF 275.11

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Castle Heights, 62-64 Maid Marian Way  
Nottingham, NG1 6BJ

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-74554  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 07/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1868976\_1  
Hole No.: TP211-TP207  
Sample Reference: B8-B9  
Soil Description: Light brown clayey very gravelly very sandy SILT

Depth Top [m]: 1.00  
Depth Base [m]: 2.20  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 9.9                   | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | >150               | >150     | >150     | >150     | 150            |           |
| 16                    | 52                 | 50       | 54       | 48       | 51             |           |
| 18                    | 32                 | 38       | 30       | 32       | 33             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990). OMC tested with 0.5% of LIME addition.  
Re-issue 2: Site Address amended.

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Sebastian Bielawicz  
Deputy Head of Geotechnical Section  
and on behalf of i2 Analytical Ltd

Reported: 28/07/2021

GF 275.11



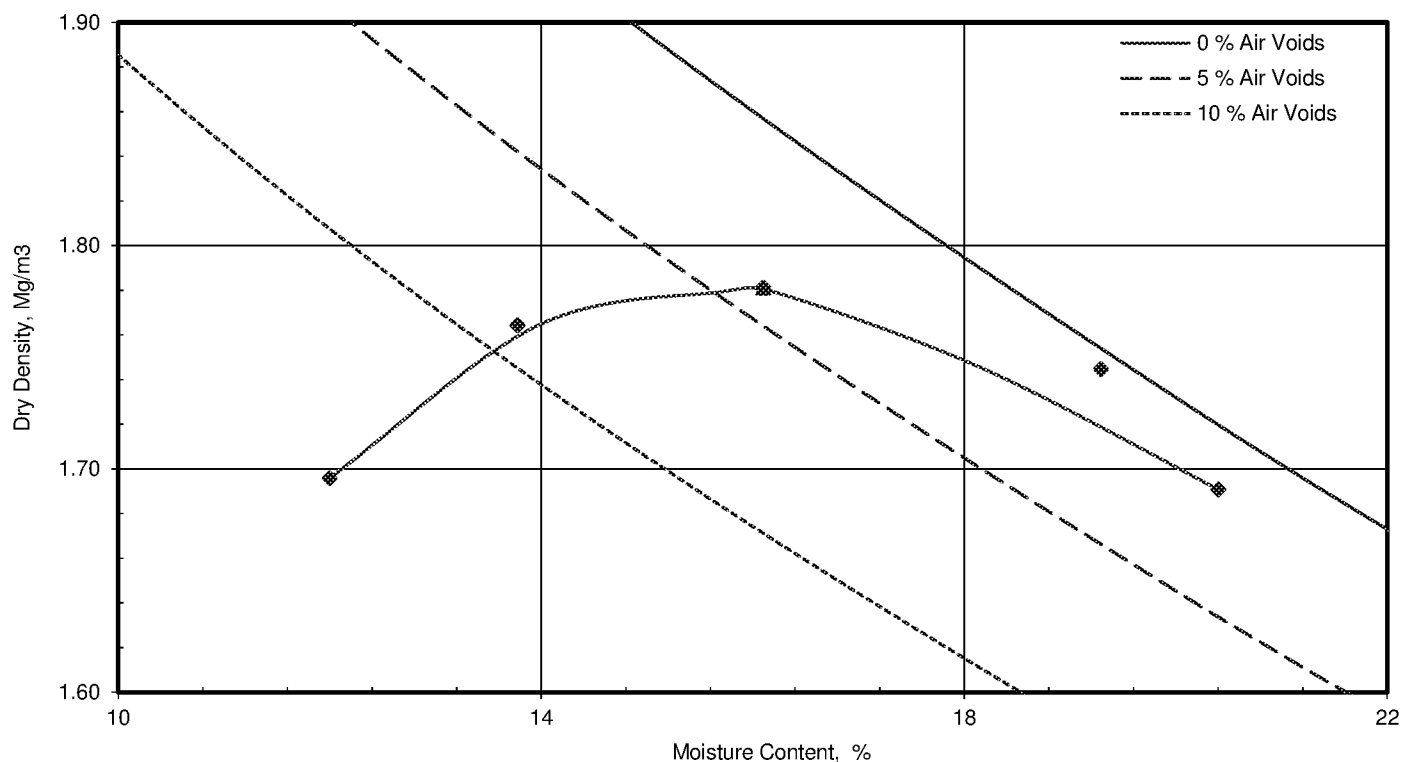
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Park House, 39 Bo'ness Road  
Grangemouth, FK3 8ANContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-78780  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 10/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1890871  
Hole No.: TP216  
Sample Reference: B8  
Sample Description: Yellowish brown CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: Not Given  
Sample Type: B

|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| Compaction Point No. |       | 1    | 2    | 3    | 4    | 5    |
| Moisture Content     | %     | 12   | 14   | 16   | 19   | 20   |
| Dry Density          | Mg/m³ | 1.70 | 1.76 | 1.78 | 1.74 | 1.69 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | 1 Litre              |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 0                    |
| Material Retained on 20.0 mm Sieve | %     | 1                    |
| Particle Density - Assumed         | Mg/m³ | 2.65                 |
| As received Moisture Content       | %     | 19                   |
| Maximum Dry Density                | Mg/m³ | 1.78                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks: Re-issue 1: Site name amended

Signed:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

for and on behalf of i2 Analytical Ltd



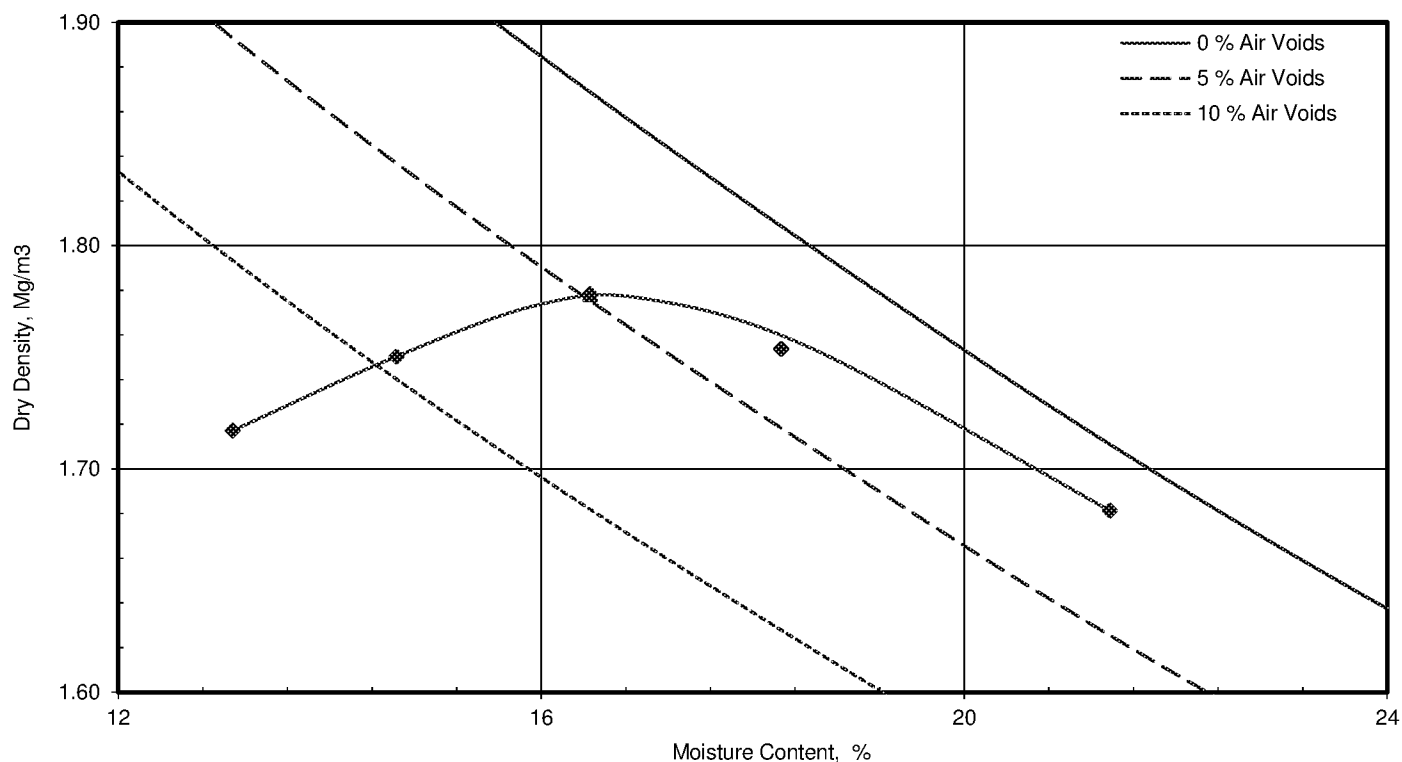
4041

**TEST CERTIFICATE****Dry Density / Moisture Content****Relationship Light Compaction**Tested in Accordance with:  
BS 1377-4: 1990i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB

Environmental Science

Client: Delta-Simons  
Client Address: Park House, 39 Bo'ness Road  
Grangemouth, FK3 8ANContact: Mark James  
Site Address: Bognor RegisClient Reference: 20-1543.07  
Job Number: 21-78780  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 10/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

**Test Results:**Laboratory Reference: 1890871\_1  
Hole No.: TP216  
Sample Reference: B8  
Sample Description: Yellowish brown CLAY  
Sample Preparation: Sample was quartered and broken down by hand. Material used was natural.Depth Top [m]: 2.90  
Depth Base [m]: Not Given  
Sample Type: B

| Compaction Point No. | 1     | 2    | 3    | 4    | 5    |      |
|----------------------|-------|------|------|------|------|------|
| Moisture Content     | %     | 13   | 15   | 16   | 18   | 21   |
| Dry Density          | Mg/m³ | 1.72 | 1.75 | 1.78 | 1.75 | 1.68 |

|                                    |       |                      |
|------------------------------------|-------|----------------------|
| Mould Type                         |       | 1 Litre              |
| Samples Used                       |       | Single sample tested |
| Material Retained on 37.5 mm Sieve | %     | 0                    |
| Material Retained on 20.0 mm Sieve | %     | 1                    |
| Particle Density - Assumed         | Mg/m³ | 2.70                 |
| As received Moisture Content       | %     | 15                   |
| Maximum Dry Density                | Mg/m³ | 1.78                 |

|                          |   |    |
|--------------------------|---|----|
| Optimum Moisture Content | % | 16 |
|--------------------------|---|----|

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.3 using 2.5kg [light] Rammer

Remarks: OMC tested with 1% of LIME addition.  
Re-issue 1: Site name amended

Signed:

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for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Park House, 39 Bo'ness Road  
Grangemouth, FK3 8AN

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-78780  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 10/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1890871\_1  
Hole No.: TP216  
Sample Reference: B8  
Soil Description: Yellowish brown CLAY

Depth Top [m]: 2.90  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 13                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 15                    | >150               | >150     | >150     | >150     | 150            |           |
| 17                    | >150               | >150     | >150     | >150     | 150            |           |
| 18                    | >150               | >150     | >150     | >150     | 150            |           |
| 21                    | 80                 | 86       | 84       | 90       | 85             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 1: Site name amended

Signed:

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for and on behalf of i2 Analytical Ltd

# TEST CERTIFICATE

## Hand Shear Vane at each compaction point

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Tested in Accordance with: Guideline for Hand Shear Vane Test\*

Client: Delta-Simons  
Client Address: Park House, 39 Bo'ness Road  
Grangemouth, FK3 8AN

Contact: Mark James  
Site Address: Bognor Regis

Client Reference: 20-1543.07  
Job Number: 21-78780  
Date Sampled: 28/04/2021  
Date Received: 04/05/2021  
Date Tested: 10/06/2021  
Sampled By: Client

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

### Test Results:

Laboratory Reference: 1890871  
Hole No.: TP216  
Sample Reference: B8  
Soil Description: Yellowish brown CLAY

Depth Top [m]: 2.90  
Depth Base [m]: Not Given  
Sample Type: B

| Moisture Content<br>% | Shear Vane Reading |          |          |          |                | Tv<br>kPa |
|-----------------------|--------------------|----------|----------|----------|----------------|-----------|
|                       | 1<br>kPa           | 2<br>kPa | 3<br>kPa | 4<br>kPa | Average<br>kPa |           |
| 12                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 14                    | UTP                | UTP      | UTP      | UTP      | UTP            |           |
| 16                    | 108                | 110      | 108      | 108      | 109            |           |
| 19                    | 78                 | 72       | 80       | 76       | 77             |           |
| 20                    | 32                 | 30       | 30       | 34       | 32             |           |

Note: UTP - Unable To Penetrate; \* - Guideline for Hand Held Shear Vane Test, New Zealand Geotechnical Society INC, August 2001

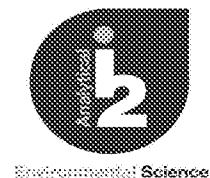
Remarks: Compacted by: Light Compaction 2.5kg (BS1377:Part 4:1990).  
Re-issue 1: Site name amended

Signed:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

for and on behalf of i2 Analytical Ltd

## Appendix G – Soil Chemical Analysis Results



**Mark James**  
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62-64 Maid Marian Way  
Nottingham  
NG1 6BJ

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

## **Analytical Report Number : 21-68457**

Replaces Analytical Report Number: 21-68457, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 14/04/2021 |
| <b>Your job number:</b>     | 20 1543 07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 14/04/2021 |
| <b>Your order number:</b>   | DS60452        | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 3 soil samples |                                                        |            |

**Signed**

Karolina Marek  
PL Head of Reporting Team  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-68457  
Project / Site name: Bognor Regis  
Your Order No: DS60452

|                                      |       |                    |                      |               |               |               |
|--------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|
| Lab Sample Number                    |       |                    |                      | 1835626       | 1835734       | 1835735       |
| Sample Reference                     |       |                    |                      | CBR5          | CBR9          | CBR8          |
| Sample Number                        |       |                    |                      | ES1           | ES1           | ES1           |
| Depth (m)                            |       |                    |                      | 0.20-0.40     | 0.20-0.40     | 0.20-0.40     |
| Date Sampled                         |       |                    |                      | 13/04/2021    | 14/04/2021    | 14/04/2021    |
| Time Taken                           |       |                    |                      | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |
| Stone Content                        | %     | 0.1                | NONE                 | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                     | %     | 0.01               | NONE                 | 10            | 15            | 17            |
| Total mass of sample received        | kg    | 0.001              | NONE                 | 1.0           | 1.0           | 1.2           |

|                  |      |     |           |              |              |              |
|------------------|------|-----|-----------|--------------|--------------|--------------|
| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
|------------------|------|-----|-----------|--------------|--------------|--------------|

#### General Inorganics

|                                                                         |          |         |        |      |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 9.3  | 8.0   | 7.7   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 510  | 180   | 180   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.25 | 0.088 | 0.092 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 253  | 87.7  | 92.3  |

#### Speciated PAHs

|                        |       |      |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | 0.49   | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | 0.36   | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | 8.6    | 0.70   | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS | 3.7    | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | 11     | 0.76   | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS | 8.2    | 0.61   | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | 3.8    | 0.36   | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS | 3.3    | 0.31   | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | 4.1    | 0.36   | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | 1.9    | 0.21   | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | 3.4    | 0.35   | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | 2.3    | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | 0.86   | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | 3.0    | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |      |      |        |
|-----------------------------|-------|-----|--------|------|------|--------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | 54.8 | 3.66 | < 0.80 |
|-----------------------------|-------|-----|--------|------|------|--------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 11    | 12    | 14    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 28    | 25    | 27    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 18    | 12    | 12    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 71    | 19    | 22    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 18    | 15    | 17    |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 89    | 57    | 64    |

#### Monoaromatics & Oxygenates

|                                    |       |       |        |         |         |         |
|------------------------------------|-------|-------|--------|---------|---------|---------|
| Benzene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| Toluene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| p & m-xylene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| o-xylene                           | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |

Analytical Report Number: 21-68457  
Project / Site name: Bognor Regis  
Your Order No: DS60452

|                                         |       |                    |                         |               |               |               |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|
| Lab Sample Number                       |       |                    |                         | 1835626       | 1835734       | 1835735       |
| Sample Reference                        |       |                    |                         | CBR5          | CBR9          | CBR8          |
| Sample Number                           |       |                    |                         | ES1           | ES1           | ES1           |
| Depth (m)                               |       |                    |                         | 0.20-0.40     | 0.20-0.40     | 0.20-0.40     |
| Date Sampled                            |       |                    |                         | 13/04/2021    | 14/04/2021    | 14/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |

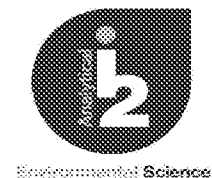
**Petroleum Hydrocarbons**

|                                  |       |       |        |         |         |         |
|----------------------------------|-------|-------|--------|---------|---------|---------|
| TPH-CWG - Aliphatic >EC5 - EC6   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | 4.3     |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | 2.6     |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    |

|                                 |       |       |        |         |         |         |
|---------------------------------|-------|-------|--------|---------|---------|---------|
| TPH-CWG - Aromatic >EC5 - EC7   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | 3.6     |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10    | MCERTS | 32      | < 10    | < 10    |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10    | MCERTS | 38      | < 10    | < 10    |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10    | NONE   | 14      | < 10    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10    | MCERTS | 70      | < 10    | < 10    |

|                 |       |    |        |    |      |      |
|-----------------|-------|----|--------|----|------|------|
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | 14 | < 10 | < 10 |
|-----------------|-------|----|--------|----|------|------|

U/S = Unsuitable Sample I/S = Insufficient Sample



**Analytical Report Number : 21-68457**

**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                            |
|-------------------|------------------|---------------|-----------|-------------------------------------------------|
| 1835626           | CBR5             | ES1           | 0.20-0.40 | Brown loam and sand with gravel and vegetation. |
| 1835734           | CBR9             | ES1           | 0.20-0.40 | Brown loam and sand with gravel and vegetation. |
| 1835735           | CBR8             | ES1           | 0.20-0.40 | Brown loam and sand with gravel and vegetation. |

**Analytical Report Number : 21-68457**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

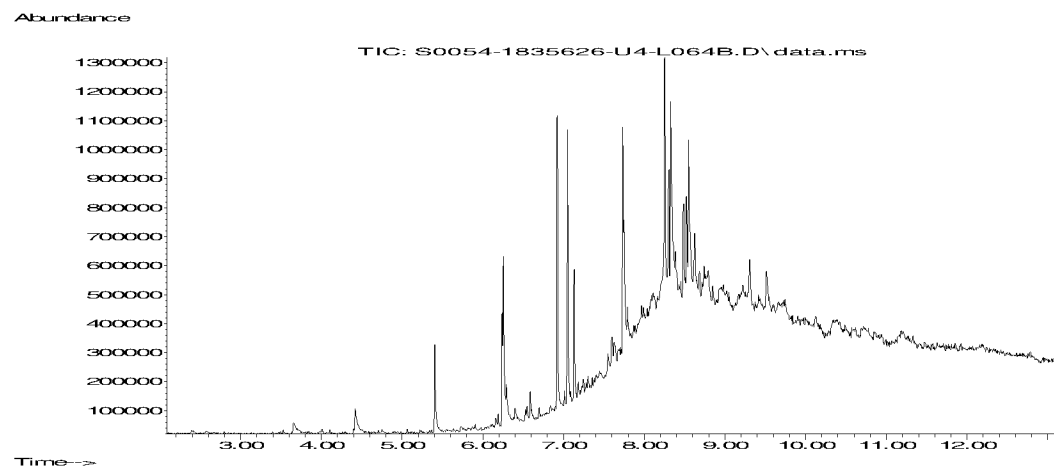
| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                          | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                     | L038-PL       | D                  | MCERTS               |
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                              | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.                                     | In house method based on HSG 248                                                     | A001-PL       | D                  | ISO 17025            |
| Hexavalent chromium in soil (Lower Level)          | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.     | In-house method                                                                      | L080-PL       | W                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                                     | L019-UK/PL    | W                  | NONE                 |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.    | In-house method based on USEPA 8270                                                  | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                                     | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements.           | L019-UK/PL    | D                  | NONE                 |
| TPH Chromatogram in Soil                           | TPH Chromatogram in Soil.                                                                                                                                 | In-house method                                                                      | L064-PL       | D                  | NONE                 |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                             | In-house method, TPH with carbon banding and silica gel split/cleanup.               | L076-PL       | D                  | NONE                 |
| TPHCWG (Soil)                                      | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.                                                                                 | In-house method with silica gel split/clean up.                                      | L088/76-PL    | W                  | MCERTS               |
| BTEX and MTBE in soil (Monoaromatics)              | Determination of BTEX in soil by headspace GC-MS.                                                                                                         | In-house method based on USEPA8260                                                   | L073B-PL      | W                  | MCERTS               |
| Sulphate, water soluble, in soil                   | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                     | L038-PL       | D                  | MCERTS               |

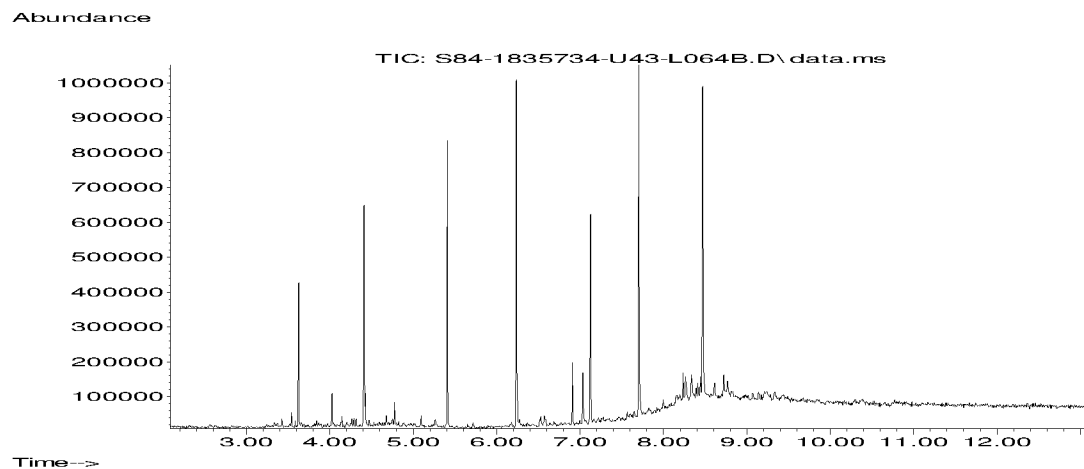
**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

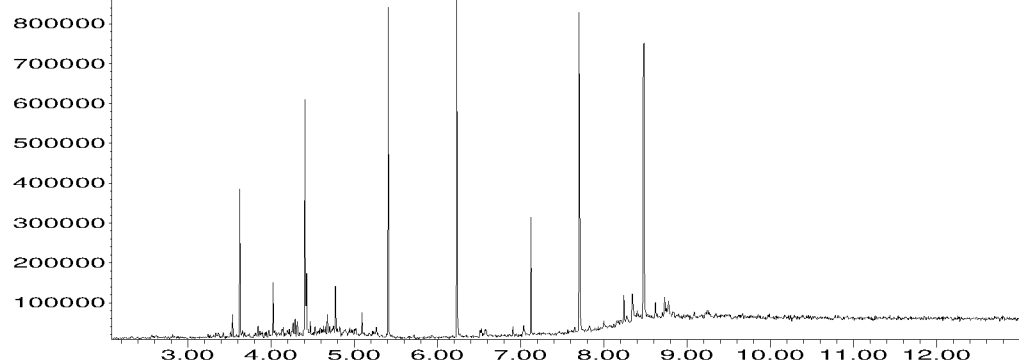
**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**



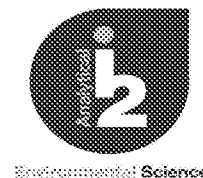


Abundance

TIC: S85-1835735-U43-L064B.D\data.ms



Time-->



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NG1 6BJ

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Herts,  
WD18 8YS

## **Analytical Report Number : 21-7227**

Replaces Analytical Report Number: 21-72270, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 29/04/2021 |
| <b>Your job number:</b>     | 20-1543 07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 30/04/2021 |
| <b>Your order number:</b>   | DS60833        | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 4 soil samples |                                                        |            |

**Sign**

Karolina Marek  
PL Head of Reporting Team  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-72270  
Project / Site name: Bognor Regis  
Your Order No: DS60833

| Lab Sample Number                       |       |                    |                         | 1856470       | 1856471       | 1856472       | 1856473       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | CP02          | TP218         | TP217         | TP216         |
| Sample Number                           |       |                    |                         | 3             | 1             | 1             | 1             |
| Depth (m)                               |       |                    |                         | 2.60-2.70     | 0.20-0.30     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                            |       |                    |                         | 28/04/2021    | 28/04/2021    | 28/04/2021    | 28/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 19            | 7.3           | 9.2           | 9.1           |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.5           | 1.2           | 0.90          | 1.0           |

| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected |
|------------------|------|-----|-----------|--------------|--------------|--------------|--------------|
|------------------|------|-----|-----------|--------------|--------------|--------------|--------------|

#### General Inorganics

|                                                                         |          |         |        |      |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.2  | 8.0   | 7.1   | 6.8   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 270  | 53    | 38    | 97    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.14 | 0.026 | 0.019 | 0.049 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 136  | 26.3  | 19.0  | 48.6  |

#### Speciated PAHs

|                        |       |      |        |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.71   |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.56   |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 1.3    |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 7.2    |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 2.4    |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 7.5    |
| Pyrene                 | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 7.1    |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 3.9    |
| Chrysene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 3.2    |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 4.1    |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 1.2    |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 3.3    |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 1.8    |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.53   |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 2.1    |

#### Total PAH

|                             |       |     |        |        |        |        |      |
|-----------------------------|-------|-----|--------|--------|--------|--------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | < 0.80 | < 0.80 | 46.8 |
|-----------------------------|-------|-----|--------|--------|--------|--------|------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 6.8   | 5.1   | 5.4   | 9.2   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 11    | 14    | 14    | 25    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 9.5   | 15    | 14    | 17    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 5.2   | 13    | 12    | 20    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 9.8   | 8.0   | 8.6   | 17    |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 27    | 42    | 37    | 55    |

#### Monoaromatics & Oxygenates

|                                    |       |       |        |         |         |         |         |
|------------------------------------|-------|-------|--------|---------|---------|---------|---------|
| Benzene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| p & m-xylene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| o-xylene                           | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |

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|                                         |       |                    |                         |               |               |               |               |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Lab Sample Number                       |       |                    |                         | 1856470       | 1856471       | 1856472       | 1856473       |
| Sample Reference                        |       |                    |                         | CP02          | TP218         | TP217         | TP216         |
| Sample Number                           |       |                    |                         | 3             | 1             | 1             | 1             |
| Depth (m)                               |       |                    |                         | 2.60-2.70     | 0.20-0.30     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                            |       |                    |                         | 28/04/2021    | 28/04/2021    | 28/04/2021    | 28/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |

#### Petroleum Hydrocarbons

|                                  |       |       |        |         |         |         |         |
|----------------------------------|-------|-------|--------|---------|---------|---------|---------|
| TPH-CWG - Aliphatic >EC5 - EC6   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | < 10    |

|                                 |       |       |        |         |         |         |         |
|---------------------------------|-------|-------|--------|---------|---------|---------|---------|
| TPH-CWG - Aromatic >EC5 - EC7   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   | 18      |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   | 19      |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | 33      |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | 46      |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | 110     |

|                 |       |    |        |      |      |      |      |
|-----------------|-------|----|--------|------|------|------|------|
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 |
|-----------------|-------|----|--------|------|------|------|------|

#### Pesticides

|                                  |       |    |      |   |      |      |      |
|----------------------------------|-------|----|------|---|------|------|------|
| Alachlor                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Aldrin                           | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Azinphos-ethyl                   | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Azinphos-methyl                  | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| BHC-alpha (benzene hexachloride) | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| BHC-beta                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| BHC-delta                        | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| BHC-gamma (Lindane, gamma HCH)   | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Bifenthrin                       | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Carbophenothion                  | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Chlordane-cis                    | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Chlordane-trans                  | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Chlorfenvinphos                  | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Chlorothalonil                   | µg/kg | 20 | NONE | - | < 20 | < 20 | < 20 |
| Chlorpyrifos                     | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Cyfluthrin (Sum)                 | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Cyhalothrin (Lambda)             | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Cypermethrin (Sum)               | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDD-o,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDD-p,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDE-o,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDE-p,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDT-o,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| DDT-p,p'                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Deltamethrin                     | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Demeton-O                        | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Demeton-S                        | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Diazinon                         | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |
| Dichlorobenzonitrile, 2,6-       | µg/kg | 10 | NONE | - | < 10 | < 10 | < 10 |

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| Lab Sample Number                       |       |                    |                         | 1856470       | 1856471       | 1856472       | 1856473       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | CP02          | TP218         | TP217         | TP216         |
| Sample Number                           |       |                    |                         | 3             | 1             | 1             | 1             |
| Depth (m)                               |       |                    |                         | 2.60-2.70     | 0.20-0.30     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                            |       |                    |                         | 28/04/2021    | 28/04/2021    | 28/04/2021    | 28/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |
| Dichlorvos                              | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Dimethoate                              | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Dimethylvinphos                         | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             | < 20          | < 20          | < 20          |
| Endrin aldehyde                         | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Endrin ketone                           | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Ethion                                  | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Etrinfos                                | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Fenitrothion                            | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Fenthion                                | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Fenvalerate (Sum)                       | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             | < 20          | < 20          | < 20          |
| Malathion                               | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Methacrifos                             | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | -             | < 20          | < 20          | < 20          |
| Mevinphos, E+Z                          | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Omethoate                               | µg/kg | 20                 | NONE                    | -             | < 20          | < 20          | < 20          |
| Parathion                               | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Parathion-methyl                        | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Pendimethalin                           | µg/kg | 10                 | NONE                    | -             | 15            | 38            | < 10          |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Permethrin, Cis-                        | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Permethrin, Trans-                      | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Phorate                                 | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Phosalone                               | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Phosphamidon (Sum)                      | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Pirimiphos-ethyl                        | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Pirimiphos-methyl                       | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Propetamphos                            | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Propyzamide                             | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             | < 10          | < 10          | < 10          |

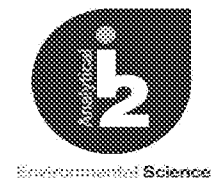
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|                                         |               |                    |                         |               |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|
| Lab Sample Number                       | 1856470       | 1856471            | 1856472                 | 1856473       |
| Sample Reference                        | CP02          | TP218              | TP217                   | TP216         |
| Sample Number                           | 3             | 1                  | 1                       | 1             |
| Depth (m)                               | 2.60-2.70     | 0.20-0.30          | 0.10-0.20               | 0.10-0.20     |
| Date Sampled                            | 28/04/2021    | 28/04/2021         | 28/04/2021              | 28/04/2021    |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |

#### Herbicides

|                    |       |    |      |   |      |   |      |
|--------------------|-------|----|------|---|------|---|------|
| Aldicarb           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Aldicarb Sulfone   | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Aldicarb Sulfoxide | µg/kg | 50 | NONE | - | < 50 | - | < 50 |
| Atrazine           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Carbaryl           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Carbofuran         | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Carbofuran, 3-OH   | µg/kg | 20 | NONE | - | < 20 | - | < 20 |
| Chlortoluron       | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Cyanazine          | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Diflufenzuron      | µg/kg | 50 | NONE | - | < 50 | - | < 50 |
| Diuron             | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Fluometuron        | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Isoproturon        | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Linuron            | µg/kg | 20 | NONE | - | < 20 | - | < 20 |
| Methiocarb         | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Methomyl           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Oxamyl             | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Prometryn          | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Propazine          | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Propoxur           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Siduron            | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Simazine           | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Tebuthiuron        | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Terbuthylazine     | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Terbutryn          | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Thiadiazuron       | µg/kg | 10 | NONE | - | < 10 | - | < 10 |
| Trietazine         | µg/kg | 10 | NONE | - | < 10 | - | < 10 |

U/S = Unsuitable Sample I/S = Insufficient Sample



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**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                         |
|-------------------|------------------|---------------|-----------|----------------------------------------------|
| 1856470           | CP02             | 3             | 2.60-2.70 | Grey clay with gravel.                       |
| 1856471           | TP218            | 1             | 0.20-0.30 | Brown sandy clay with gravel and vegetation. |
| 1856472           | TP217            | 1             | 0.10-0.20 | Brown sandy clay with gravel and vegetation. |
| 1856473           | TP216            | 1             | 0.10-0.20 | Brown sandy clay with gravel and vegetation. |

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**Project / Site name: Bognor Regis**

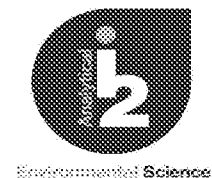
**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                          | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                     | L038-PL       | D                  | MCERTS               |
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                              | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.                                     | In house method based on HSG 248                                                     | A001-PL       | D                  | ISO 17025            |
| Hexavalent chromium in soil (Lower Level)          | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.     | In-house method                                                                      | L080-PL       | W                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                                     | L019-UK/PL    | W                  | NONE                 |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.    | In-house method based on USEPA 8270                                                  | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                                     | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements.           | L019-UK/PL    | D                  | NONE                 |
| TPH Chromatogram in Soil                           | TPH Chromatogram in Soil.                                                                                                                                 | In-house method                                                                      | L064-PL       | D                  | NONE                 |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                             | In-house method, TPH with carbon banding and silica gel split/cleanup.               | L076-PL       | D                  | NONE                 |
| TPHCWG (Soil)                                      | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.                                                                                 | In-house method with silica gel split/clean up.                                      | L088/76-PL    | W                  | MCERTS               |
| Pesticides by GC-MS/MS                             | Determination of Pesticides in soil by GC MS/MS                                                                                                           | In-house method                                                                      | L055B-PL      | W                  | NONE                 |
| Herbicides by LC-MS                                | Determination of Herbicides in soil by LC MS                                                                                                              | In-house method                                                                      | L056B-PL      | W                  | NONE                 |
| BTEX and MTBE in soil (Monoaromatics)              | Determination of BTEX in soil by headspace GC-MS.                                                                                                         | In-house method based on USEPA8260                                                   | L073B-PL      | W                  | MCERTS               |
| Sulphate, water soluble, in soil                   | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                     | L038-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**

**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

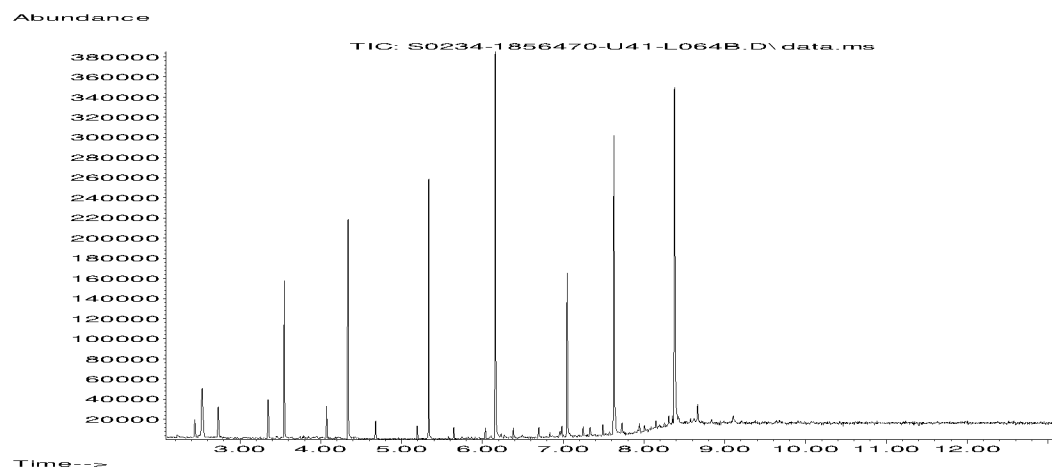


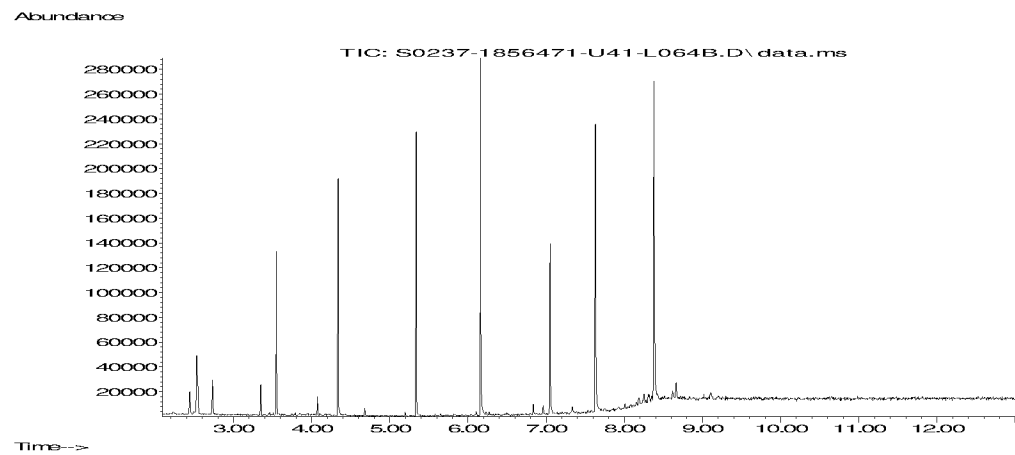
Analytical Report Number : 21-72270  
Project / Site name: Bognor Regis

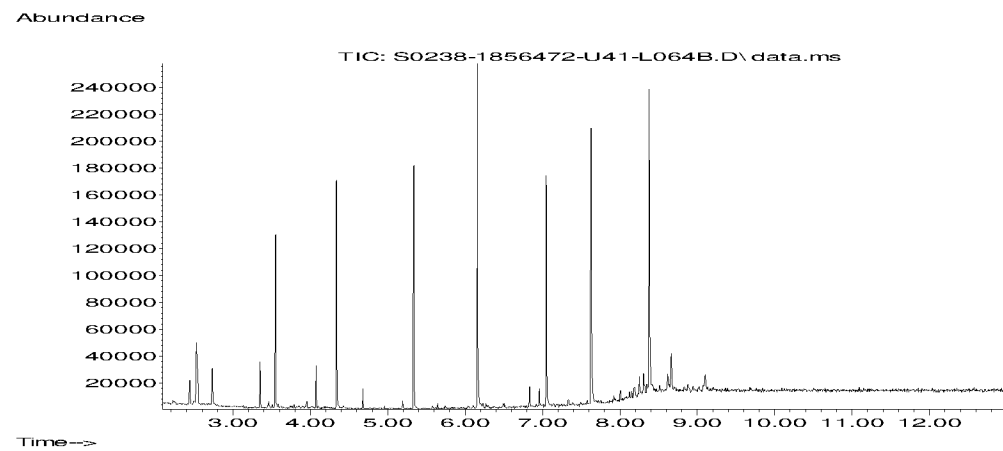
Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

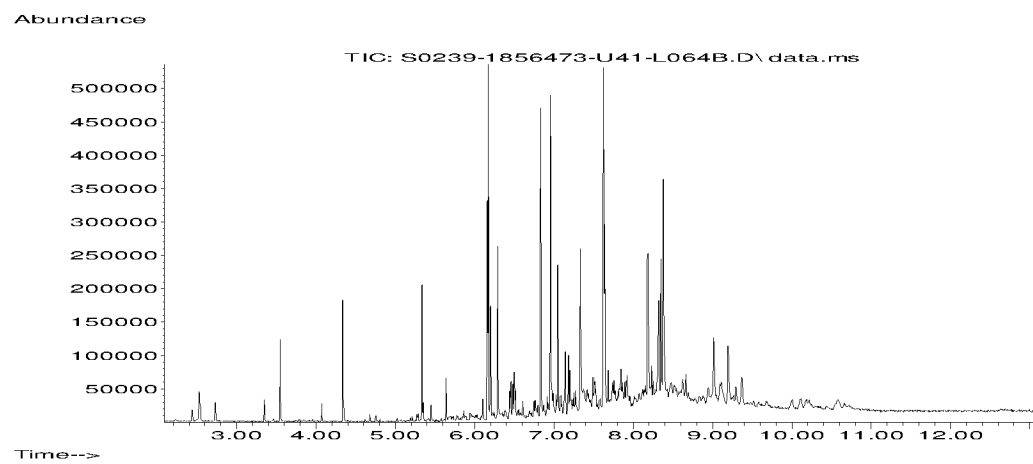
| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|

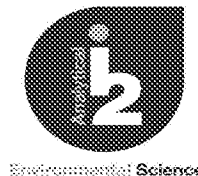
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.











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## **Analytical Report Number : 21-72750**

Replaces Analytical Report Number: 21-72750, issue no. 1  
Client references/information amended.

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis   | <b>Samples received on:</b>                            | 30/04/2021 |
| <b>Your job number:</b>     | 20-1543.07     | <b>Samples instructed on/<br/>Analysis started on:</b> | 04/05/2021 |
| <b>Your order number:</b>   | DS60879        | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2              | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 8 soil samples |                                                        |            |

**Signed:**

Joanna Waw  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-72750  
Project / Site name: Bognor Regis  
Your Order No: DS60879

| Lab Sample Number                    |       |                    |                      | 1858778       | 1858779       | 1858780       | 1858781       | 1858782       |
|--------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                     |       |                    |                      | TP210         | TP211         | TP211         | TP209         | TP207         |
| Sample Number                        |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                            |       |                    |                      | 0.50-0.50     | 0.60-0.60     | 1.20-1.20     | 2.20-2.20     | 0.60-0.60     |
| Date Sampled                         |       |                    |                      | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    |
| Time Taken                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
| Stone Content                        | %     | 0.1                | NONE                 | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                     | %     | 0.01               | NONE                 | 13            | 13            | 12            | 16            | 13            |
| Total mass of sample received        | kg    | 0.001              | NONE                 | 1.2           | 1.2           | 1.2           | 1.0           | 1.7           |

| Asbestos in Soil | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
|------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
|------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|

#### General Inorganics

| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.1   | 7.5   | 8.2   | 8.3   | 7.7    |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|--------|
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | 0.041 | 0.044 | 0.058 | 0.043  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 57    | 44    | 29    | 34    | 19     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.028 | 0.022 | 0.014 | 0.017 | 0.0097 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 28.3  | 22.1  | 14.3  | 17.0  | 9.7    |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | 0.013 | 0.012 | 0.017 | 0.012  |
| Organic Matter                                                          | %        | 0.1     | MCERTS | 0.9   | 0.7   | 0.1   | < 0.1 | 0.7    |
| Total Organic Carbon (TOC)                                              | %        | 0.1     | MCERTS | 0.5   | 0.4   | < 0.1 | < 0.1 | 0.4    |

#### Speciated PAHs

|                        |       |      |        |        |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |        |        |        |        |        |
|-----------------------------|-------|-----|--------|--------|--------|--------|--------|--------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 |
|-----------------------------|-------|-----|--------|--------|--------|--------|--------|--------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 7.9   | 12    | 4.7   | 4.1   | 12    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | 0.4   | 0.5   | < 0.2 |
| Chromium (hexavalent)             | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 24    | 33    | 12    | 2.8   | 35    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 13    | 18    | 7.1   | 2.6   | 18    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 13    | 14    | 5.9   | 2.7   | 15    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 16    | 26    | 11    | 6.5   | 30    |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 51    | 60    | 24    | 20    | 62    |

Analytical Report Number: 21-72750  
Project / Site name: Bognor Regis  
Your Order No: DS60879

| Lab Sample Number                    | 1858778       | 1858779            | 1858780              | 1858781       | 1858782       |
|--------------------------------------|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                     | TP210         | TP211              | TP211                | TP209         | TP207         |
| Sample Number                        | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                            | 0.50-0.50     | 0.60-0.60          | 1.20-1.20            | 2.20-2.20     | 0.60-0.60     |
| Date Sampled                         | 30/04/2021    | 30/04/2021         | 30/04/2021           | 30/04/2021    | 30/04/2021    |
| Time Taken                           | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units         | Limit of detection | Accreditation Status |               |               |

#### Monocaromatics & Oxygenates

|                                    |       |       |        |         |         |         |         |         |
|------------------------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| Benzene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene                            | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| p & m-xylene                       | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| o-xylene                           | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| MTBE (Methyl Tertiary Butyl Ether) | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |

#### Petroleum Hydrocarbons

|                                  |       |       |        |         |         |         |         |         |
|----------------------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| TPH-CWG - Aliphatic >EC5 - EC6   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |

|                                 |       |       |        |         |         |         |         |         |
|---------------------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| TPH-CWG - Aromatic >EC5 - EC7   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |

|                 |       |    |        |      |      |      |      |      |
|-----------------|-------|----|--------|------|------|------|------|------|
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 | < 10 |
|-----------------|-------|----|--------|------|------|------|------|------|

#### Pesticides

|                                  |       |    |      |      |      |      |      |      |
|----------------------------------|-------|----|------|------|------|------|------|------|
| Alachlor                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aldrin                           | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Azinphos-ethyl                   | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Azinphos-methyl                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| BHC-alpha (benzene hexachloride) | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| BHC-beta                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| BHC-delta                        | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| BHC-gamma (Lindane, gamma HCH)   | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Bifenthrin                       | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Carbophenothion                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Chlordane-cis                    | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Chlordane-trans                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Chlorfenvinphos                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Chlorothalonil                   | µg/kg | 20 | NONE | < 20 | < 20 | < 20 | < 20 | < 20 |
| Chlorpyrifos                     | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Cyfluthrin (Sum)                 | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Cyhalothrin (Lambda)             | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| Cypermethrin (Sum)               | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| DDD-o,p'                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| DDD-p,p'                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |
| DDE-o,p'                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | < 10 |

Analytical Report Number: 21-72750  
Project / Site name: Bognor Regis  
Your Order No: DS60879

| Lab Sample Number                       |       |                    |                         | 1858778       | 1858779       | 1858780       | 1858781       | 1858782       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP210         | TP211         | TP211         | TP209         | TP207         |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.50-0.50     | 0.60-0.60     | 1.20-1.20     | 2.20-2.20     | 0.60-0.60     |
| Date Sampled                            |       |                    |                         | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Deltamethrin                            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Demeton-O                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Demeton-S                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Diazinon                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Dichlorvos                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Dieldrin                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Dimethoate                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Dimethylvinphos                         | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Endrin                                  | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Endrin aldehyde                         | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Endrin ketone                           | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Ethion                                  | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Etrinfos                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Fenitrothion                            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Fenthion                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Fenvalerate (Sum)                       | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Heptachlor                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Isodrin                                 | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Malathion                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Methacrifos                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Mevinphos, E+Z                          | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Omethoate                               | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Parathion                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Parathion-methyl                        | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Pendimethalin                           | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Permethrin, Cis-                        | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Permethrin, Trans-                      | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Phorate                                 | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Phosalone                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Phosphamidon (Sum)                      | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Pirimiphos-ethyl                        | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Pirimiphos-methyl                       | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Propetamphos                            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Propyzamide                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Tecnazene                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Trifluralin                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |

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Project / Site name: Bognor Regis  
Your Order No: DS60879

| Lab Sample Number                       |       |                    |                         | 1858778       | 1858779       | 1858780       | 1858781       | 1858782       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP210         | TP211         | TP211         | TP209         | TP207         |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.50-0.50     | 0.60-0.60     | 1.20-1.20     | 2.20-2.20     | 0.60-0.60     |
| Date Sampled                            |       |                    |                         | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    | 30/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Herbicides</b>                       |       |                    |                         |               |               |               |               |               |
| Aldicarb                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Aldicarb Sulfone                        | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Aldicarb Sulfoxide                      | µg/kg | 50                 | NONE                    | < 50          | < 50          | < 50          | < 50          | < 50          |
| Atrazine                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Carbaryl                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Carbofuran                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Carbofuran, 3-OH                        | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Chlortoluron                            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Cyanazine                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Diflufenzuron                           | µg/kg | 50                 | NONE                    | < 50          | < 50          | < 50          | < 50          | < 50          |
| Diuron                                  | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Fluometuron                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Isoproturon                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Linuron                                 | µg/kg | 20                 | NONE                    | < 20          | < 20          | < 20          | < 20          | < 20          |
| Methiocarb                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Methomyl                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Oxamyl                                  | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Prometryn                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Propazine                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Propoxur                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Siduron                                 | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Simazine                                | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Tebuthiuron                             | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Terbutylazine                           | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Terbutryn                               | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Thiadiazuron                            | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |
| Trietazine                              | µg/kg | 10                 | NONE                    | < 10          | < 10          | < 10          | < 10          | < 10          |

U/S = Unsuitable Sample I/S = Insufficient Sample

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**Project / Site name: Bognor Regis**  
**Your Order No: DS60879**

|                                             |              |                           |                             |               |               |               |
|---------------------------------------------|--------------|---------------------------|-----------------------------|---------------|---------------|---------------|
| <b>Lab Sample Number</b>                    |              |                           |                             | 1858783       | 1858784       | 1858785       |
| <b>Sample Reference</b>                     |              |                           |                             | TP219         | TP205         | TP206         |
| <b>Sample Number</b>                        |              |                           |                             | None Supplied | None Supplied | None Supplied |
| <b>Depth (m)</b>                            |              |                           |                             | 0.10-0.20     | 0.10-0.20     | 0.10-0.20     |
| <b>Date Sampled</b>                         |              |                           |                             | 29/04/2021    | 29/04/2021    | 29/04/2021    |
| <b>Time Taken</b>                           |              |                           |                             | None Supplied | None Supplied | None Supplied |
| <b>Analytical Parameter (Soil Analysis)</b> | <b>Units</b> | <b>Limit of detection</b> | <b>Accreditation Status</b> |               |               |               |
| Stone Content                               | %            | 0.1                       | NONE                        | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                            | %            | 0.01                      | NONE                        | 12            | 11            | 12            |
| Total mass of sample received               | kg           | 0.001                     | NONE                        | 1.0           | 1.0           | 0.90          |

|                         |             |     |           |              |              |              |
|-------------------------|-------------|-----|-----------|--------------|--------------|--------------|
| <b>Asbestos in Soil</b> | <b>Type</b> | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
|-------------------------|-------------|-----|-----------|--------------|--------------|--------------|

#### General Inorganics

|                                                                         |          |         |        |       |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 7.1   | 6.9   | 8.1   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | -     | -     |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 25    | 28    | 49    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.012 | 0.014 | 0.025 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 12.3  | 13.9  | 24.6  |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | -     | -     |
| Organic Matter                                                          | %        | 0.1     | MCERTS | 2.9   | 3.1   | 3.3   |
| Total Organic Carbon (TOC)                                              | %        | 0.1     | MCERTS | 1.7   | 1.8   | 1.9   |

#### Speciated PAHs

|                        |       |      |        |        |        |        |
|------------------------|-------|------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |        |        |        |        |
|-----------------------------|-------|-----|--------|--------|--------|--------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | MCERTS | < 0.80 | < 0.80 | < 0.80 |
|-----------------------------|-------|-----|--------|--------|--------|--------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 9.7   | 9.1   | 10    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 0.5   | 0.5   | 0.5   |
| Chromium (hexavalent)             | mg/kg | 1.2 | MCERTS | < 1.2 | < 1.2 | < 1.2 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 25    | 24    | 26    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 17    | 17    | 18    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 25    | 19    | 21    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 16    | 17    | 18    |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 59    | 60    | 67    |

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Your Order No: DS60879

| Lab Sample Number                      |       |                    |                      | 1858783       | 1858784       | 1858785       |
|----------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|
| Sample Reference                       |       |                    |                      | TP219         | TP205         | TP206         |
| Sample Number                          |       |                    |                      | None Supplied | None Supplied | None Supplied |
| Depth (m)                              |       |                    |                      | 0.10-0.20     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                           |       |                    |                      | 29/04/2021    | 29/04/2021    | 29/04/2021    |
| Time Taken                             |       |                    |                      | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis)   | Units | Limit of detection | Accreditation Status |               |               |               |
| <b>Monocaromatics &amp; Oxygenates</b> |       |                    |                      |               |               |               |
| Benzene                                | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |
| Toluene                                | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |
| Ethylbenzene                           | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |
| p & m-xylene                           | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |
| o-xylene                               | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |
| MTBE (Methyl Tertiary Butyl Ether)     | mg/kg | 0.001              | MCERTS               | < 0.001       | < 0.001       | < 0.001       |

#### Petroleum Hydrocarbons

|                                  |       |       |        |         |         |         |
|----------------------------------|-------|-------|--------|---------|---------|---------|
| TPH-CWG - Aliphatic >EC5 - EC6   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC6 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aliphatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   |
| TPH-CWG - Aliphatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aliphatic >EC16 - EC21 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 | mg/kg | 8     | MCERTS | < 8.0   | < 8.0   | < 8.0   |
| TPH-CWG - Aliphatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    |
| TPH-CWG - Aliphatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    |

|                                 |       |       |        |         |         |         |
|---------------------------------|-------|-------|--------|---------|---------|---------|
| TPH-CWG - Aromatic >EC5 - EC7   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC7 - EC8   | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC8 - EC10  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 |
| TPH-CWG - Aromatic >EC10 - EC12 | mg/kg | 1     | MCERTS | < 1.0   | < 1.0   | < 1.0   |
| TPH-CWG - Aromatic >EC12 - EC16 | mg/kg | 2     | MCERTS | < 2.0   | < 2.0   | < 2.0   |
| TPH-CWG - Aromatic >EC16 - EC21 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic >EC21 - EC35 | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic >EC35 - EC40 | mg/kg | 10    | NONE   | < 10    | < 10    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) | mg/kg | 10    | MCERTS | < 10    | < 10    | < 10    |

|                 |       |    |        |      |      |      |
|-----------------|-------|----|--------|------|------|------|
| TPH (C35 - C40) | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 |
|-----------------|-------|----|--------|------|------|------|

#### Pesticides

|                                  |       |    |      |   |   |   |
|----------------------------------|-------|----|------|---|---|---|
| Alachlor                         | µg/kg | 10 | NONE | - | - | - |
| Aldrin                           | µg/kg | 10 | NONE | - | - | - |
| Azinphos-ethyl                   | µg/kg | 10 | NONE | - | - | - |
| Azinphos-methyl                  | µg/kg | 10 | NONE | - | - | - |
| BHC-alpha (benzene hexachloride) | µg/kg | 10 | NONE | - | - | - |
| BHC-beta                         | µg/kg | 10 | NONE | - | - | - |
| BHC-delta                        | µg/kg | 10 | NONE | - | - | - |
| BHC-gamma (Lindane, gamma HCH)   | µg/kg | 10 | NONE | - | - | - |
| Bifenthrin                       | µg/kg | 10 | NONE | - | - | - |
| Carbophenothion                  | µg/kg | 10 | NONE | - | - | - |
| Chlordane-cis                    | µg/kg | 10 | NONE | - | - | - |
| Chlordane-trans                  | µg/kg | 10 | NONE | - | - | - |
| Chlorfenvinphos                  | µg/kg | 10 | NONE | - | - | - |
| Chlorothalonil                   | µg/kg | 20 | NONE | - | - | - |
| Chlorpyrifos                     | µg/kg | 10 | NONE | - | - | - |
| Cyfluthrin (Sum)                 | µg/kg | 10 | NONE | - | - | - |
| Cyhalothrin (Lambda)             | µg/kg | 10 | NONE | - | - | - |
| Cypermethrin (Sum)               | µg/kg | 10 | NONE | - | - | - |
| DDD-o,p'                         | µg/kg | 10 | NONE | - | - | - |
| DDD-p,p'                         | µg/kg | 10 | NONE | - | - | - |
| DDE-o,p'                         | µg/kg | 10 | NONE | - | - | - |

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| Lab Sample Number                       |       |                    |                         | 1858783       | 1858784       | 1858785       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP219         | TP205         | TP206         |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.10-0.20     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                            |       |                    |                         | 29/04/2021    | 29/04/2021    | 29/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Deltamethrin                            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Demeton-O                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Demeton-S                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Diazinon                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Dichlorvos                              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Dimethoate                              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Dimethylvinphos                         | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Endrin aldehyde                         | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Endrin ketone                           | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Ethion                                  | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Ethionfos                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Fenitrothion                            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Fenthion                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Fenvalerate (Sum)                       | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Malathion                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Methacrifos                             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Methoxychlor, p,p'                      | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Mevinphos, E+Z                          | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Omethoate                               | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Parathion                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Parathion-methyl                        | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Pendimethalin                           | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Permethrin, Cis-                        | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Permethrin, Trans-                      | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Phorate                                 | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Phosalone                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Phosphamidon (Sum)                      | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Pirimiphos-ethyl                        | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Pirimiphos-methyl                       | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Propetamphos                            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Propyzamide                             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             | -             | -             |

**Analytical Report Number: 21-72750**  
**Project / Site name: Bognor Regis**  
**Your Order No: DS60879**

| Lab Sample Number                       |       |                    |                         | 1858783       | 1858784       | 1858785       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP219         | TP205         | TP206         |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.10-0.20     | 0.10-0.20     | 0.10-0.20     |
| Date Sampled                            |       |                    |                         | 29/04/2021    | 29/04/2021    | 29/04/2021    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |
| <b>Herbicides</b>                       |       |                    |                         |               |               |               |
| Aldicarb                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Aldicarb Sulfone                        | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Aldicarb Sulfoxide                      | µg/kg | 50                 | NONE                    | -             | -             | -             |
| Atrazine                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Carbaryl                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Carbofuran                              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Carbofuran, 3-OH                        | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Chlortoluron                            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Cyanazine                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Diflufenzuron                           | µg/kg | 50                 | NONE                    | -             | -             | -             |
| Diuron                                  | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Fluometuron                             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Isoproturon                             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Linuron                                 | µg/kg | 20                 | NONE                    | -             | -             | -             |
| Methiocarb                              | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Methomyl                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Oxamyl                                  | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Prometryn                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Propazine                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Propoxur                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Siduron                                 | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Simazine                                | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Tebuthiuron                             | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Terbutylazine                           | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Terbutryn                               | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Thiadiazuron                            | µg/kg | 10                 | NONE                    | -             | -             | -             |
| Trietazine                              | µg/kg | 10                 | NONE                    | -             | -             | -             |

U/S = Unsuitable Sample I/S = Insufficient Sample

**Analytical Report Number : 21-72750**  
**Project / Site name: Bognor Regis**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                         |
|-------------------|------------------|---------------|-----------|----------------------------------------------|
| 1858778           | TP210            | None Supplied | 0.50-0.50 | Brown clay.                                  |
| 1858779           | TP211            | None Supplied | 0.60-0.60 | Brown clay.                                  |
| 1858780           | TP211            | None Supplied | 1.20-1.20 | Brown sandy clay with gravel.                |
| 1858781           | TP209            | None Supplied | 2.20-2.20 | Brown sandy clay with gravel.                |
| 1858782           | TP207            | None Supplied | 0.60-0.60 | Brown clay.                                  |
| 1858783           | TP219            | None Supplied | 0.10-0.20 | Brown sandy clay with gravel and vegetation. |
| 1858784           | TP205            | None Supplied | 0.10-0.20 | Brown clay with gravel and vegetation.       |
| 1858785           | TP206            | None Supplied | 0.10-0.20 | Brown clay with gravel and vegetation.       |

**Analytical Report Number : 21-72750**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                          | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                     | L038-PL       | D                  | MCERTS               |
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                              | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil. | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.                                    | In house method based on HSG 248                                                     | A001-PL       | D                  | ISO 17025            |
| Hexavalent chromium in soil (Lower Level)          | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.     | In-house method                                                                      | L080-PL       | W                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                                     | L019-UK/PL    | W                  | NONE                 |
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                             | In house method.                                                                     | L009-PL       | D                  | MCERTS               |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.    | In-house method based on USEPA 8270                                                  | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                         | In house method.                                                                     | L099-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                               | In-house method based on British Standard Methods and MCERTS requirements.           | L019-UK/PL    | D                  | NONE                 |
| Total organic carbon (Automated) in soil           | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                             | In house method.                                                                     | L009-PL       | D                  | MCERTS               |
| TPH Chromatogram in Soil                           | TPH Chromatogram in Soil.                                                                                                                                 | In-house method                                                                      | L064-PL       | D                  | NONE                 |
| TPH in (Soil)                                      | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                             | In-house method, TPH with carbon banding and silica gel split/cleanup.               | L076-PL       | D                  | NONE                 |
| TPHCWG (Soil)                                      | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.                                                                                 | In-house method with silica gel split/clean up.                                      | L088/76-PL    | W                  | MCERTS               |
| Pesticides by GC-MS/MS                             | Determination of Pesticides in soil by GC MS/MS                                                                                                           | In-house method                                                                      | L055B-PL      | W                  | NONE                 |
| Herbicides by LC-MS                                | Determination of Herbicides in soil by LC MS                                                                                                              | In-house method                                                                      | L056B-PL      | W                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                                     | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                                     | L038-PL       | D                  | MCERTS               |

**Analytical Report Number : 21-72750**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

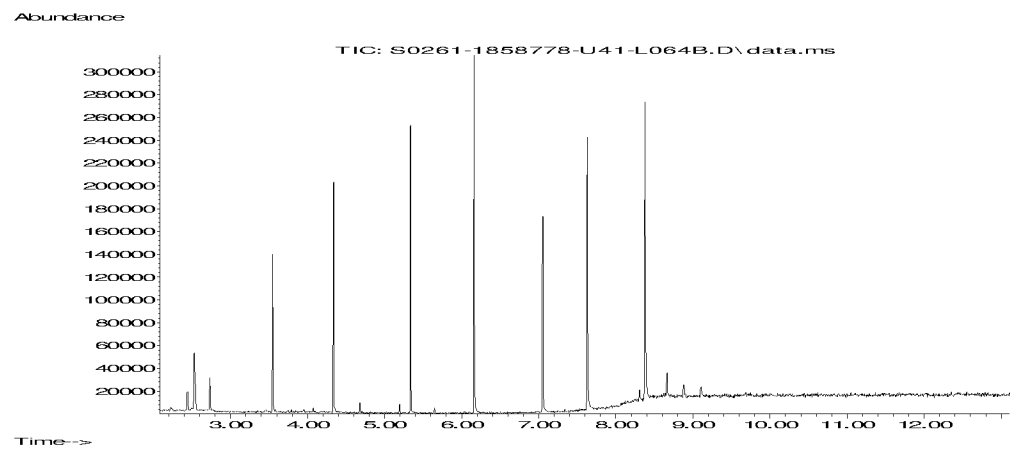
| Analytical Test Name                  | Analytical Method Description                                                                                                                             | Analytical Method Reference        | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|--------------------|----------------------|
| BTEX and MTBE in soil (Monoaromatics) | Determination of BTEX in soil by headspace GC-MS.                                                                                                         | In-house method based on USEPA8260 | L073B-PL      | W                  | MCERTS               |
| Sulphate, water soluble, in soil      | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                   | L038-PL       | D                  | MCERTS               |

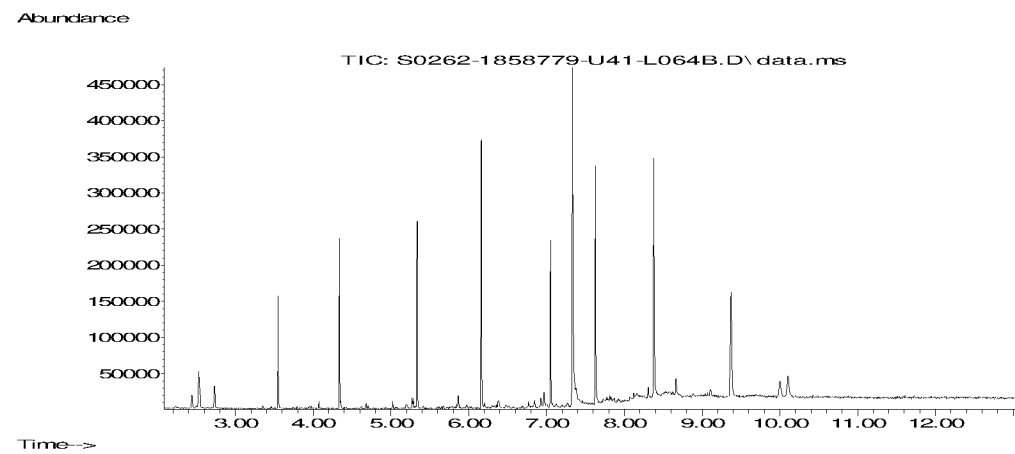
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

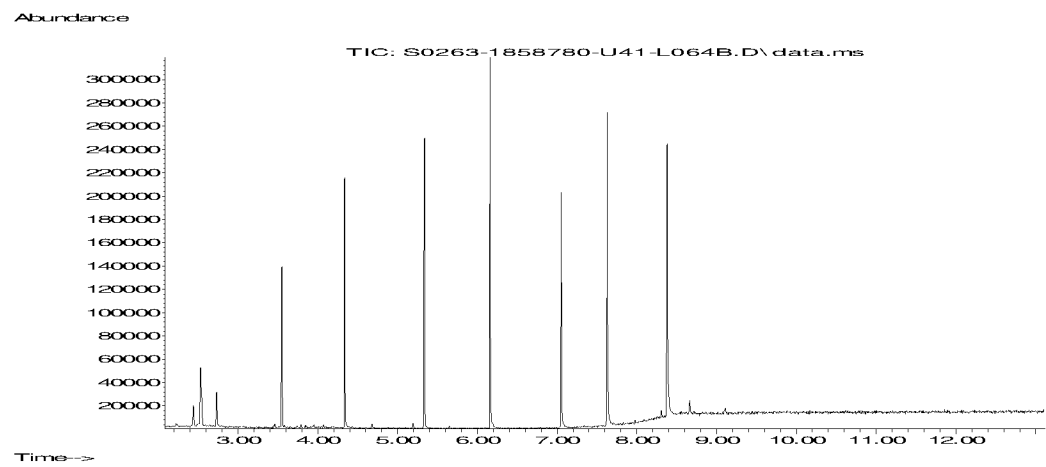
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

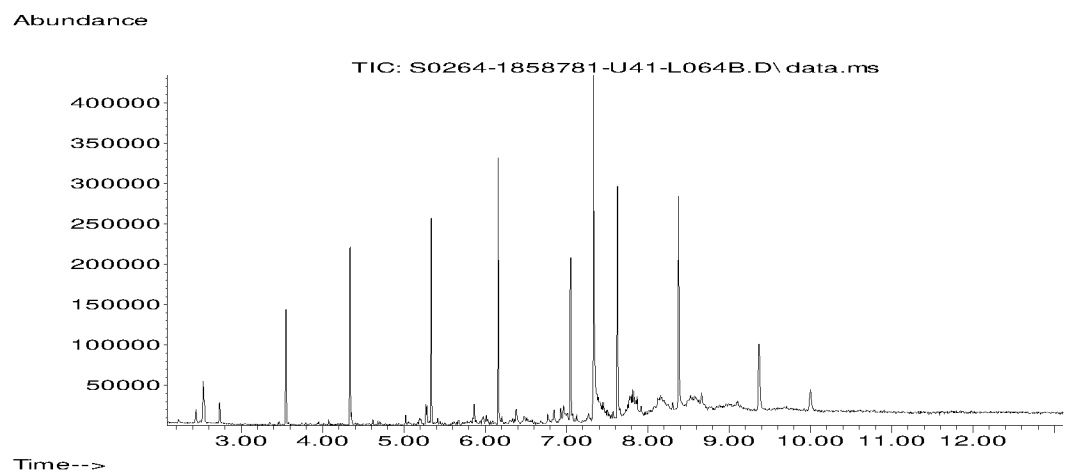
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

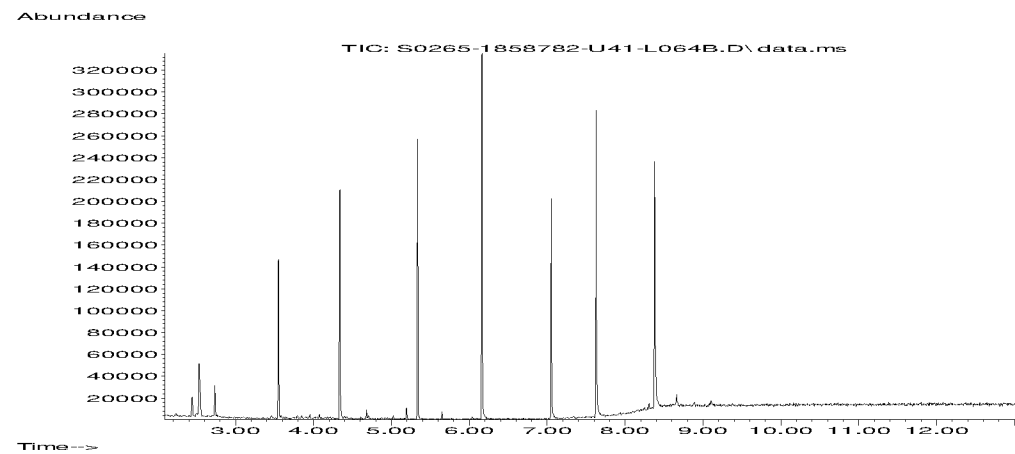
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

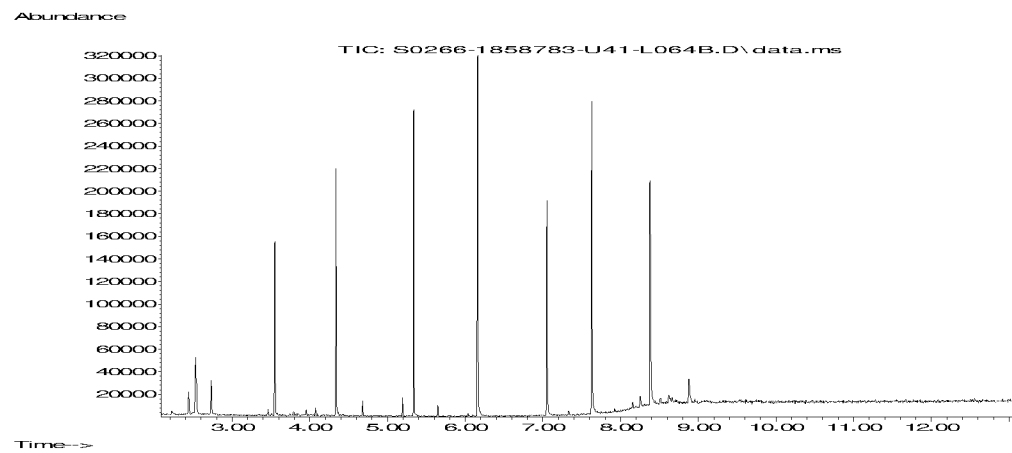


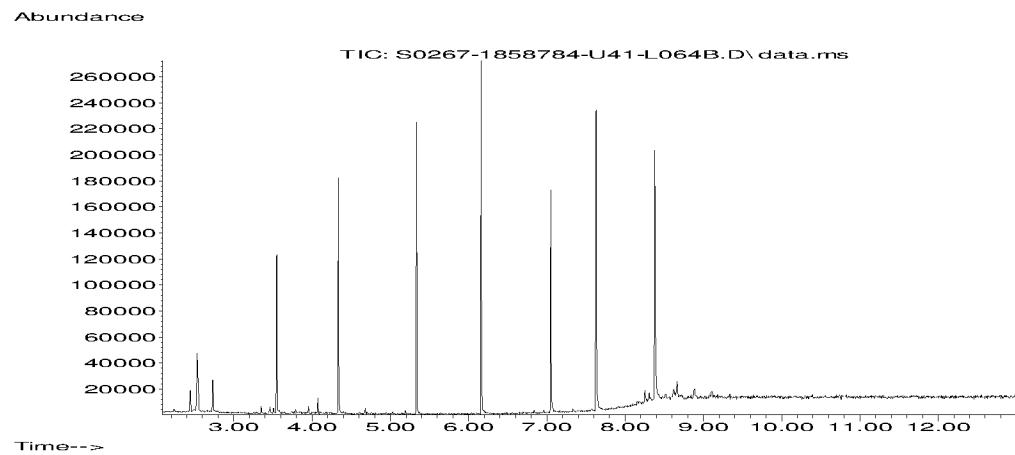


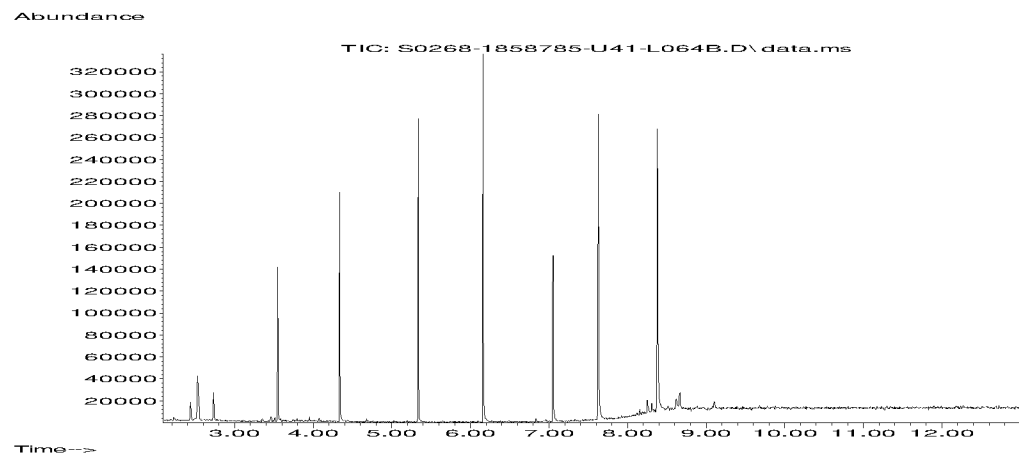




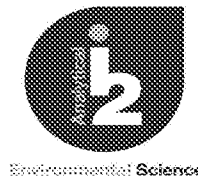








## Appendix H – Groundwater Chemical Analysis Results



**Mark James**  
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## **Analytical Report Number : 21-74343**

Replaces Analytical Report Number: 21-74343, issue no. 1  
Client references/information amended.

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bognor Regis    | <b>Samples received on:</b>                            | 13/05/2021 |
| <b>Your job number:</b>     | 20-1543,07      | <b>Samples instructed on/<br/>Analysis started on:</b> | 13/05/2021 |
| <b>Your order number:</b>   | DS61025         | <b>Analysis completed by:</b>                          | 28/07/2021 |
| <b>Report Issue Number:</b> | 2               | <b>Report issued on:</b>                               | 28/07/2021 |
| <b>Samples Analysed:</b>    | 3 water samples |                                                        |            |

**Signed:**

Joanna Wawrzeczko  
Technical Reviewer (Reporting Team)  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

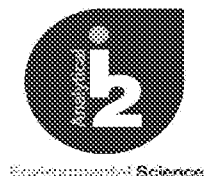
Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 21-74343  
Project / Site name: Bognor Regis

Your Order No: DS61025

|                                          |               |                    |                         |
|------------------------------------------|---------------|--------------------|-------------------------|
| Lab Sample Number                        | 1867536       | 1867537            | 1867538                 |
| Sample Reference                         | CP02          | CP04               | CP06                    |
| Sample Number                            | None Supplied | None Supplied      | None Supplied           |
| Depth (m)                                | None Supplied | None Supplied      | None Supplied           |
| Date Sampled                             | 12/05/2021    | 12/05/2021         | 12/05/2021              |
| Time Taken                               | None Supplied | None Supplied      | None Supplied           |
| Analytical Parameter<br>(Water Analysis) | Units         | Limit of detection | Accreditation<br>Status |

#### General Inorganics

|                                        |          |      |           |        |       |        |
|----------------------------------------|----------|------|-----------|--------|-------|--------|
| pH                                     | pH Units | N/A  | ISO 17025 | 7.6    | 7.3   | 7.3    |
| Sulphate as SO <sub>4</sub>            | µg/l     | 45   | ISO 17025 | 325000 | 54900 | 111000 |
| Total Sulphur                          | µg/l     | 15   | NONE      | 110000 | 18000 | 37000  |
| Chloride                               | mg/l     | 0.15 | ISO 17025 | 920    | 64    | 100    |
| Ammoniacal Nitrogen as NH <sub>4</sub> | µg/l     | 15   | ISO 17025 | 91     | 500   | 59     |
| Nitrate as N                           | mg/l     | 0.01 | ISO 17025 | 1.00   | 1.60  | 5.73   |
| Nitrate as NO <sub>3</sub>             | mg/l     | 0.05 | ISO 17025 | 4.41   | 7.11  | 25.4   |

#### Speciated PAHs

|                        |      |      |           |        |        |        |
|------------------------|------|------|-----------|--------|--------|--------|
| Naphthalene            | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthylene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Acenaphthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Fluorene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Phenanthrene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Anthracene             | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Fluoranthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Pyrene                 | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)anthracene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Chrysene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(a)pyrene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene  | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 | < 0.01 |

#### Total PAH

|                   |      |      |           |        |        |        |
|-------------------|------|------|-----------|--------|--------|--------|
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 | < 0.16 |
|-------------------|------|------|-----------|--------|--------|--------|

#### Heavy Metals / Metalloids

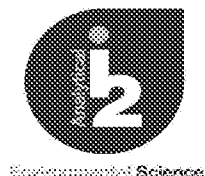
|                       |      |       |           |       |       |       |
|-----------------------|------|-------|-----------|-------|-------|-------|
| Chromium (hexavalent) | µg/l | 5     | ISO 17025 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium (dissolved) | mg/l | 0.005 | ISO 17025 | 82    | 21    | 8.6   |

|                      |      |      |           |        |        |        |
|----------------------|------|------|-----------|--------|--------|--------|
| Arsenic (dissolved)  | µg/l | 0.15 | ISO 17025 | 8.25   | 0.89   | 0.99   |
| Cadmium (dissolved)  | µg/l | 0.02 | ISO 17025 | 0.02   | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2  | ISO 17025 | 3.6    | 2.0    | 2.5    |
| Copper (dissolved)   | µg/l | 0.5  | ISO 17025 | 7.6    | 1.5    | 3.8    |
| Lead (dissolved)     | µg/l | 0.2  | ISO 17025 | < 0.2  | < 0.2  | < 0.2  |
| Mercury (dissolved)  | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved)   | µg/l | 0.5  | ISO 17025 | 4.3    | 12     | 5.5    |
| Zinc (dissolved)     | µg/l | 0.5  | ISO 17025 | 16     | 18     | 10     |

#### Monoaromatics & Oxygenates

|                                    |      |   |           |       |       |       |
|------------------------------------|------|---|-----------|-------|-------|-------|
| Benzene                            | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| Toluene                            | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| Ethylbenzene                       | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| p & m-xylene                       | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| o-xylene                           | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 1 | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |

#### Petroleum Hydrocarbons

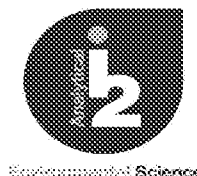


Analytical Report Number: 21-74343  
Project / Site name: Bognor Regis

Your Order No: DS61025

| Lab Sample Number                        |       |                    |                         | 1867536       | 1867537       | 1867538       |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|
| Sample Reference                         |       |                    |                         | CP02          | CP04          | CP06          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Date Sampled                             |       |                    |                         | 12/05/2021    | 12/05/2021    | 12/05/2021    |
| Time Taken                               |       |                    |                         | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |
| TPH-CWG - Aliphatic >C5 - C6             | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| TPH-CWG - Aliphatic >C6 - C8             | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| TPH-CWG - Aliphatic >C8 - C10            | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| Aliphatic >C10 - C12                     | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aliphatic >C12 - C16                     | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aliphatic >C16 - C21                     | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aliphatic >C21 - C35                     | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aliphatic >C10 - C35                     | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| TPH-CWG - Aromatic >C5 - C7              | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| TPH-CWG - Aromatic >C7 - C8              | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| TPH-CWG - Aromatic >C8 - C10             | µg/l  | 1                  | ISO 17025               | < 1.0         | < 1.0         | < 1.0         |
| Aromatic >C10 - C12                      | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aromatic >C12 - C16                      | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aromatic >C16 - C21                      | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aromatic >C21 - C35                      | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |
| Aromatic >C10 - C35                      | µg/l  | 10                 | ISO 17025               | < 10          | < 10          | < 10          |

U/S = Unsuitable Sample I/S = Insufficient Sample

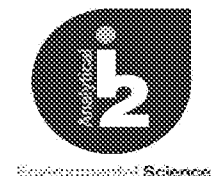


**Analytical Report Number : 21-74343**  
**Project / Site name: Bognor Regis**

**Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

| Analytical Test Name                   | Analytical Method Description                                                                                                                                              | Analytical Method Reference                                                                                    | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Metals in water by ICP-MS (dissolved)  | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.                                  | In-house method based on USEPA Method 6020 & 200.8 for the determination of trace elements in water by ICP-MS. | L012-PL       | W                  | ISO 17025            |
| Metals in water by ICP-OES (dissolved) | Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).                                                 | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                           | L039-PL       | W                  | ISO 17025            |
| Hexavalent chromium in water           | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.                                                 | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.                                   | L080-PL       | W                  | ISO 17025            |
| Nitrate in water                       | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW                                                                | In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,        | L078-PL       | W                  | ISO 17025            |
| Speciated EPA-16 PAHs in water         | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270                                                                            | L102B-PL      | W                  | ISO 17025            |
| Sulphate in water                      | Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW.                                                               | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                           | L039-PL       | W                  | ISO 17025            |
| Total Sulphur in water                 | Determination of total sulphur in water by acidification followed by ICP-OES.                                                                                              | In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil <sup>100</sup>             | L039-PL       | W                  | NONE                 |
| TPHCWG (Waters)                        | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.                                                                 | In-house method                                                                                                | L070-PL       | W                  | ISO 17025            |
| TPH C10-C35 by GCxGC-FID               | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW,GW,PW.                    | In-house method                                                                                                | L101B-PL      | W                  | ISO 17025            |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW                                                                                  | In-house method based on USEPA8260                                                                             | L073B-PL      | W                  | ISO 17025            |
| Ammonium as NH4 in water               | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton         | L082-PL       | W                  | ISO 17025            |
| Nitrate as N in water                  | Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.                                                               | In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08,        | L078-PL       | W                  | ISO 17025            |
| TPH Chromatogram in Water              | TPH Chromatogram in Water.                                                                                                                                                 | In-house method                                                                                                | L070-PL       | W                  | NONE                 |
| pH at 20oC in water (automated)        | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW                                                                                   | In house method.                                                                                               | L099-PL       | W                  | ISO 17025            |
| Chloride in water                      | Determination of Chloride colorimetrically by discrete analyser.                                                                                                           | In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.                               | L082-PL       | W                  | ISO 17025            |

**For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.**  
**For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.**  
**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

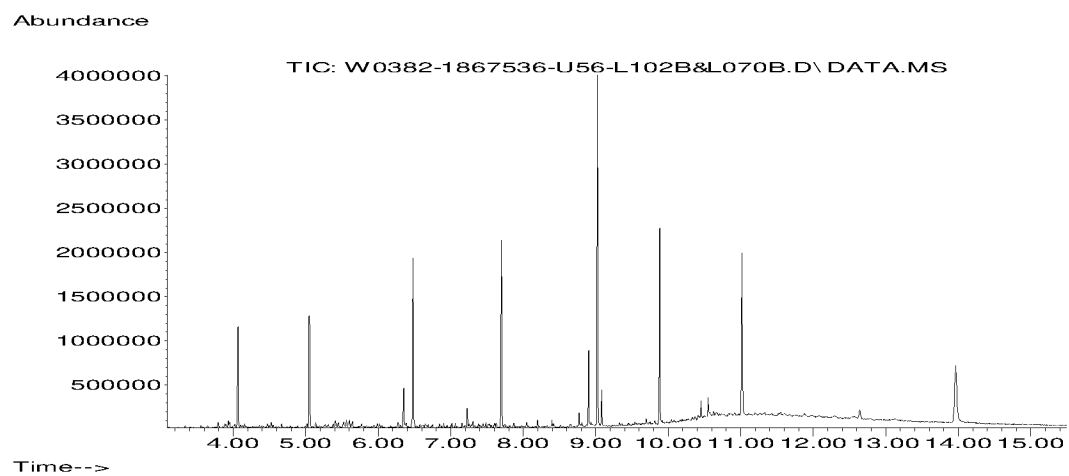


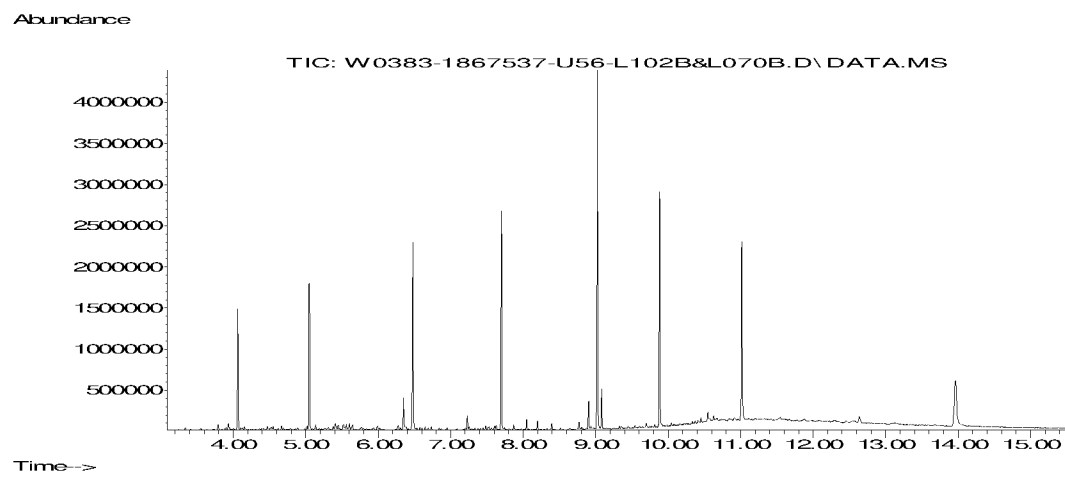
Analytical Report Number : 21-74343  
Project / Site name: Bognor Regis

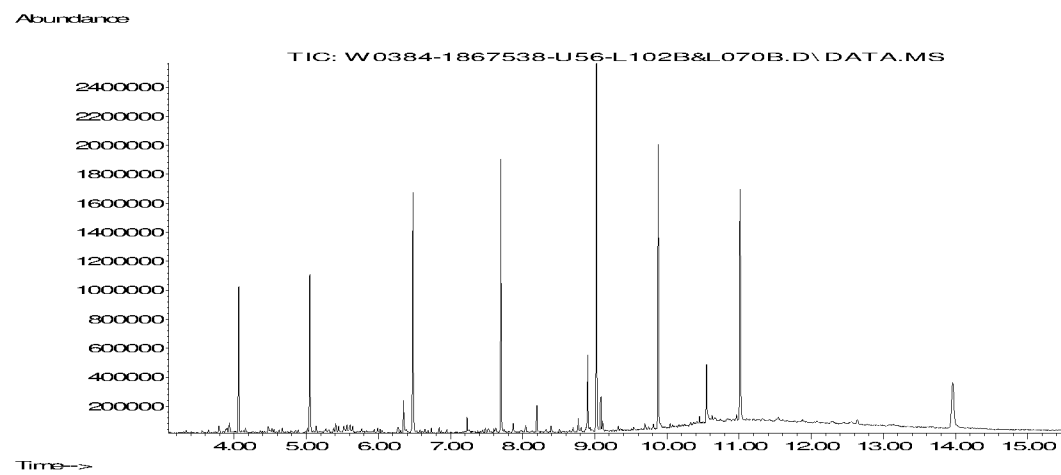
Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

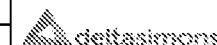




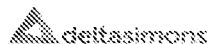


## Appendix I – Field Monitoring Data/ BRE 365 Results

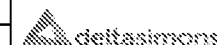
|                                                                                                                                                |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |                   |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|-----------------|------------------------|-----------------|---------------------------------------|----------------|-------------|------------------|------------------------|------|----------------------------------|-----------------|-----------------------------|----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|---|
| Site Name                                                                                                                                      |            | Oldlands Farm, Bognor Regis         |                 |                        |                 |                                       |                | Job number  |                  | 20-1543.07             |      |                                  |                 | WEATHER                     |                | Start             | End   |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| Client                                                                                                                                         |            | Lysander                            |                 |                        |                 |                                       |                | Recorded by |                  | MJ                     |      |                                  |                 | Time                        |                | 09.30             | 11.00 |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| Date (DD/MM/YYYY)                                                                                                                              |            | 18/03/2021                          |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Weather (dry/rain/snow/ice) |                | Dry               |       | Dry                                                                                                                                                                                                                                                                                                                                                                            |      |               |   |
| Gas Analyser                                                                                                                                   |            | GFM436 (Gas Kit 2-GSOU-NOT) - 12788 |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Visit Number                |                | 1                 |       |                                                                                                                                                                                                                                                                                                                                                                                |      | Pressure (mb) |   |
| Readings at start                                                                                                                              |            | CH <sub>4</sub> (% v/v)             |                 | <0.1                   |                 | CO <sub>2</sub> (% v/v)               |                | <0.1        |                  | O <sub>2</sub> (% v/v) |      | 20.2                             |                 | H <sub>2</sub> S (ppm)      |                | 0                 |       | Rising/Falling Trend                                                                                                                                                                                                                                                                                                                                                           |      |               |   |
| General comments                                                                                                                               |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                | Wind Speed (m/s)  |       | 4.10                                                                                                                                                                                                                                                                                                                                                                           | 4.10 |               |   |
|                                                                                                                                                |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                | Wind Dir. (From)  |       | NW                                                                                                                                                                                                                                                                                                                                                                             | NW   |               |   |
|                                                                                                                                                |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                | Temperature °C    |       | 10.00                                                                                                                                                                                                                                                                                                                                                                          |      |               |   |
|                                                                                                                                                |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                | SWL Measured from |       | Ground Level                                                                                                                                                                                                                                                                                                                                                                   |      |               |   |
| Ref                                                                                                                                            | GROUND GAS |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             | GROUNDWATER    |                   |       | Notes<br>(e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>\$ For Depth to water state<br>Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)<br># For Depth to Product state<br>ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product) |      |               |   |
|                                                                                                                                                | Flow       |                                     | CH <sub>4</sub> |                        | CO <sub>2</sub> |                                       | O <sub>2</sub> |             | H <sub>2</sub> S | CO                     | VOC  | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product       | Depth to water | Depth to base     |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
|                                                                                                                                                | l/hr       |                                     | % v/v           |                        | % v/v           |                                       | % v/v          |             | ppm              |                        |      |                                  |                 |                             |                |                   |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
|                                                                                                                                                | Max        | Steady                              | Max             | Steady                 | Max             | Steady                                | Min            | Steady      | Max              | Max                    | Max  |                                  |                 |                             |                |                   | mb    |                                                                                                                                                                                                                                                                                                                                                                                | mb   | m             | m |
| The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet                       |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |                   |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP01                                                                                                                                           | <0.1       | <0.1                                | <0.1            | <0.1                   | <0.1            | <0.1                                  | 19.0           | 19.8        | <1               | <1                     | <0.1 | -1.0                             | 1030            | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP02                                                                                                                                           | <0.1       | <0.1                                | <0.1            | <0.1                   | 0.3             | 0.3                                   | 19.9           | 20.1        | <1               | <1                     | <0.1 | -2.0                             | 1030            | NR                          | 0.45           | 1.82              |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP03                                                                                                                                           | 0.7        | 0.4                                 | <0.1            | <0.1                   | 0.4             | 0.3                                   | 20.0           | 20.3        | <1               | <1                     | 0.2  | 3.0                              | 1030            | NR                          | 0.73           | 1.80              |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP04                                                                                                                                           | <0.1       | <0.1                                | <0.1            | <0.1                   | 0.4             | 0.3                                   | 19.9           | 20.0        | <1               | <1                     | <0.1 | 0.0                              | 1029.0          | NR                          | 0.63           | 1.70              |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP05                                                                                                                                           | <0.1       | <0.1                                | <0.1            | <0.1                   | 0.5             | 0.4                                   | 20.2           | 20.2        | <1               | <1                     | <0.1 | -6.0                             | 1030            | NR                          | 0.35           | 1.85              |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| VP06                                                                                                                                           | <0.1       | <0.1                                | <0.1            | <0.1                   | 0.3             | 0.3                                   | 20.3           | 20.3        | <1               | <1                     | <0.1 | -5.0                             | 1029.0          | NR                          | 0.25           | 1.80              |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH01S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH01D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH02S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH02D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH03S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH03D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH04S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH04D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH05S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH05D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH06S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH06D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH07S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH07D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH08S                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH08D                                                                                                                                          | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| CP06                                                                                                                                           | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| CP04                                                                                                                                           | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| CP03                                                                                                                                           | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| CP02                                                                                                                                           | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH04HY                                                                                                                                         | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH03HY                                                                                                                                         | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| BH05HY                                                                                                                                         | NR         | NR                                  | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR                |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
|                                                                                                                                                |            |                                     |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |                   |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
| Document No. C-142                                                                                                                             |            | Version: 2.8 (Final)                |                 | Issue Date: 19/05/2021 |                 | Authors: John Rhoades / Chris Everitt |                |             |                  |                        |      | Authorised By: Richard Lawless   |                 |                             |                |                   |       |                                                                                                                                                                                                                                                                                                                                                                                |      |               |   |
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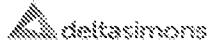


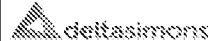
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|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|-----------------|------------------------|-----------------|---------------------------------------|----------------|-------------|------------------|------------------------|------|------|--------|--------------------------------|----------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|---------------|
| Site Name                                                                                                                                      |            | Oldlands Farm, Bognor Regis |                 |                        |                 |                                       |                | Job number  |                  | 20-1543.07             |      |      |        | WEATHER                        |                                  | Start           | End                   |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| Client                                                                                                                                         |            | Lysander                    |                 |                        |                 |                                       |                | Recorded by |                  | IRG                    |      |      |        | Time                           |                                  | 7:30            | 13:00                 |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| Date (DD/MM/YYYY)                                                                                                                              |            | 01/04/2021                  |                 |                        |                 |                                       |                |             |                  |                        |      |      |        | Weather (dry/rain/snow/ice)    |                                  | dry             |                       | dry                                                                                                                                                                                                                                                                                                                                                                            |  |                |               |
| Gas Analyser                                                                                                                                   |            | GA2000 (GSOU-LON) - GA10648 |                 |                        |                 |                                       |                |             |                  |                        |      |      |        | Visit Number                   |                                  | 2               |                       |                                                                                                                                                                                                                                                                                                                                                                                |  | Pressure (mb)  |               |
| Readings at start                                                                                                                              |            | CH <sub>4</sub> (% v/v)     |                 | 0.2                    |                 | CO <sub>2</sub> (% v/v)               |                | <0.1        |                  | O <sub>2</sub> (% v/v) |      | 21.2 |        | H <sub>2</sub> S (ppm)         |                                  | <1              |                       | Rising/Falling Trend                                                                                                                                                                                                                                                                                                                                                           |  | falling        |               |
| General comments                                                                                                                               |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |      |        |                                |                                  |                 |                       | Temperature °C                                                                                                                                                                                                                                                                                                                                                                 |  | 14.00          |               |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |      |        |                                |                                  |                 |                       | SWL Measured from                                                                                                                                                                                                                                                                                                                                                              |  | Ground Level   |               |
| Ref                                                                                                                                            | GROUND GAS |                             |                 |                        |                 |                                       |                |             |                  |                        |      |      |        |                                | GROUNDWATER                      |                 |                       | Notes<br>(e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>\$ For Depth to water state<br>Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)<br># For Depth to Product state<br>ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product) |  |                |               |
|                                                                                                                                                | Flow       |                             | CH <sub>4</sub> |                        | CO <sub>2</sub> |                                       | O <sub>2</sub> |             | H <sub>2</sub> S |                        | CO   |      | VOC    |                                | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product |                                                                                                                                                                                                                                                                                                                                                                                |  | Depth to water | Depth to base |
|                                                                                                                                                | l/hr       |                             | % v/v           |                        | % v/v           |                                       | % v/v          |             | ppm              |                        |      |      | mb     | mb                             |                                  |                 |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
|                                                                                                                                                | Max        | Steady                      | Max             | Steady                 | Max             | Steady                                | Min            | Steady      | Max              | Max                    | Max  | mb   |        |                                | mb                               | m               | m                     |                                                                                                                                                                                                                                                                                                                                                                                |  | m              |               |
| The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet                       |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |      |        |                                |                                  |                 |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP01                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | <0.1 | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP02                                                                                                                                           | 0.1        | <0.1                        | 0.3             | 0.3                    | 0.4             | 0.1                                   | 20.6           | 21.1        | <1               | <1                     | <0.1 | 0.4  | 1024.0 | NR                             | 0.58                             | 1.74            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP03                                                                                                                                           | -0.1       | <0.1                        | 0.3             | 0.2                    | 0.4             | 0.1                                   | 20.8           | 21.1        | <1               | <1                     | NR   | 0.1  | 1025   | NR                             | 0.63                             | 1.62            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP04                                                                                                                                           | <0.1       | <0.1                        | 0.3             | 0.2                    | 0.4             | 0.4                                   | 20.8           | 21.0        | <1               | <1                     | <0.1 | 0.1  | 1025.0 | NR                             | 0.92                             | 1.68            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP05                                                                                                                                           | -0.1       | <0.1                        | 0.3             | 0.2                    | 0.8             | 0.6                                   | 20.3           | 20.4        | <1               | 2.0                    | <0.1 | 0.4  | 1024   | NR                             | 0.58                             | 1.79            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| VP06                                                                                                                                           | 0.1        | <0.1                        | 0.2             | 0.2                    | 0.4             | 0.2                                   | 20.6           | 21.0        | <1               | 1.0                    | <0.1 | 0.4  | 1024.0 | NR                             | 0.61                             | 1.80            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH01S                                                                                                                                          | 0.2        | <0.1                        | 0.2             | 0.2                    | 2.6             | 0.1                                   | 19.6           | 21.5        | <1               | <1                     | NR   | 0.3  | 1024   | NR                             | dry                              | 1.41            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH01D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 1.58                             | 5.83            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH02S                                                                                                                                          | -3.0       | <0.1                        | 0.3             | 0.2                    | 1.3             | 1.3                                   | 19.9           | 19.9        | <1               | 5.0                    | NR   | 40.1 | 1024   | NR                             | 0.67                             | 3.78            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH02D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 0.70                             | 6.70            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH03S                                                                                                                                          | -2.2       | <0.1                        | 86.6            | 0.2                    | 12.8            | 0.4                                   | 20.4           | 20.4        | <1               | 3.0                    | <0.1 | 0.3  | 1024   | NR                             | 0.60                             | 2.75            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH03D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 0.72                             | 6.86            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH04S                                                                                                                                          | -0.1       | <0.1                        | 0.3             | 0.2                    | 0.8             | 0.5                                   | 20.3           | 20.8        | <1               | <1                     | <0.1 | 0.4  | 1024.0 | NR                             | 0.89                             | 1.10            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH04D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 1.01                             | 4.84            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH05S                                                                                                                                          | <0.1       | <0.1                        | 0.2             | 0.2                    | 0.1             | <0.1                                  | 21.0           | 21.0        | <1               | <1                     | NR   | 0.1  | 1024   | NR                             | 0.51                             | 3.19            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH05D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 0.51                             | 6.01            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH06S                                                                                                                                          | <0.1       | <0.1                        | 0.3             | 0.2                    | 0.3             | <0.1                                  | 20.8           | 21.4        | <1               | <1                     | NR   | 0.1  | 1025   | NR                             | 0.72                             | 2.83            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH06D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 0.64                             | 6.54            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH07S                                                                                                                                          | -0.1       | <0.1                        | 0.2             | 0.2                    | 0.1             | <0.1                                  | 21.1           | 21.2        | <1               | <1                     | NR   | 0.2  | 1024   | NR                             | 0.92                             | 2.34            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH07D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | 0.96                             | 5.89            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH08S                                                                                                                                          | -0.2       | <0.1                        | 0.2             | 0.2                    | 1.1             | 0.6                                   | 20.5           | 20.7        | <1               | 2.0                    | NR   | 0.2  | 1024   | NR                             | 0.61                             | 3.72            |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH08D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| CP06                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| CP04                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| CP03                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| CP02                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH04HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH03HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| BH05HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR   | NR     | NR                             | NR                               | NR              |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |      |        |                                |                                  |                 |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
| Document No. C-142                                                                                                                             |            | Version: 2.8 (Final)        |                 | Issue Date: 19/05/2021 |                 | Authors: John Rhoades / Chris Everitt |                |             |                  |                        |      |      |        | Authorised By: Richard Lawless |                                  |                 |                       |                                                                                                                                                                                                                                                                                                                                                                                |  |                |               |
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|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|-----------------|------------------------|-----------------|---------------------------------------|----------------|-------------|------------------|------------------------|------|----------------------------------|-----------------|-----------------------------|----------------|---------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|
| Site Name                                                                                                                                      |            | Oldlands Farm, Bognor Regis |                 |                        |                 |                                       |                | Job number  |                  | 20-1543.07             |      |                                  |                 | WEATHER                     |                | Start         | End     |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Client                                                                                                                                         |            | Lysander                    |                 |                        |                 |                                       |                | Recorded by |                  | BC                     |      |                                  |                 | Time                        |                | 9.15          | 15.00   |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Date (DD/MM/YYYY)                                                                                                                              |            | 16/04/2021                  |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Weather (dry/rain/snow/ice) |                | Dry           | Dry     |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Gas Analyser                                                                                                                                   |            | GA2000 (GSOU-LON) - GA10648 |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Pressure (mb)               |                | 1029.00       | 1030.00 |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Readings at start                                                                                                                              |            | CH <sub>4</sub> (% v/v)     |                 |                        |                 | CO <sub>2</sub> (% v/v)               |                |             |                  | O <sub>2</sub> (% v/v) |      |                                  |                 | H <sub>2</sub> S (ppm)      |                |               |         | Rising/Falling Trend                                                                                                                                                                                                                                                                                                                                                           | Rising |  |
| General comments                                                                                                                               |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Wind Speed (m/s)            |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Wind Dir. (From)            |                | NNE           | ENE     |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | Temperature °C              |                | 6.00          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 | SWL Measured from           |                | Ground Level  |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Ref                                                                                                                                            | GROUND GAS |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             | GROUNDWATER    |               |         | Notes<br>(e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>\$ For Depth to water state<br>Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)<br># For Depth to Product state<br>ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product) |        |  |
|                                                                                                                                                | Flow       |                             | CH <sub>4</sub> |                        | CO <sub>2</sub> |                                       | O <sub>2</sub> |             | H <sub>2</sub> S | CO                     | VOC  | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product       | Depth to water | Depth to base |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                | l/hr       |                             | % v/v           |                        | % v/v           |                                       | % v/v          |             | ppm              |                        |      |                                  |                 |                             |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                | Max        | Steady                      | Max             | Steady                 | Max             | Steady                                | Min            | Steady      | Max              | Max                    | Max  | mb                               | mb              | m                           | m              | m             |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet                       |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP01                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | <0.1 | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP02                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | <0.1 | NR                               | NR              | NR                          | 0.8            | 1.8           |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP03                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.7             | 0.7                                   | 18.4           | 18.4        | <1               | <1                     | 0.2  | 0.0                              | 1029            | NR                          | 0.82           | 1.69          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP04                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 21.4           | 21.0        | <1               | <1                     | <0.1 | 0.0                              | 1030.0          | NR                          | 1.22           | 1.86          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP05                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.3             | 0.3                                   | 20.3           | 20.3        | <1               | <1                     | <0.1 | 0.0                              | 1029            | NR                          | 0.68           | 1.97          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| VP06                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | <0.1 | NR                               | NR              | NR                          | 0.87           | 1.86          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH01S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 2.8             | 2.8                                   | 18.7           | 18.7        | <1               | <1                     | <0.1 | 0.0                              | 1029            | NR                          | 1.43           | 1.54          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH01D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 1.74           | 5.89          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH02S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.2             | 0.2                                   | 20.3           | 20.3        | <1               | <1                     | <0.1 | 0.0                              | 1028            | NR                          | 1.00           | 3.81          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH02D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 0.91           | 8.69          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH03S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 20.5           | 20.5        | <1               | <1                     | <0.1 | 0.0                              | 1030.0          | NR                          | 0.84           | 2.84          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH03D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 0.93           | 6.92          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH04S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.5             | 0.5                                   | 20.1           | 20.1        | <1               | <1                     | <0.1 | 0.0                              | 1028            | NR                          | 1.00           | 1.26          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH04D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 1.18           | 4.85          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH05S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.6             | 0.5                                   | 20.2           | 20.2        | <1               | <1                     | <0.1 | 0.0                              | 1031            | NR                          | 0.73           | 3.32          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH05D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 0.73           | 6.17          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH06S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 20.5           | 20.5        | <1               | <1                     | <0.1 | 0.0                              | 0               | NR                          | 0.84           | 2.90          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH06D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 0.84           | 6.44          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH07S                                                                                                                                          | 4.9        | <0.1                        | <0.1            | <0.1                   | 0.2             | 0.2                                   | 20.5           | 20.5        | <1               | <1                     | <0.1 | 0.0                              | 1027            | NR                          | 1.16           | 2.58          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH07D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 1.18           | 5.99          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH08S                                                                                                                                          | 17.1       | <0.1                        | <0.1            | <0.1                   | 3.3             | 3.3                                   | 18.4           | 18.4        | <1               | <1                     | <0.1 | 0.0                              | 1028            | NR                          | 0.82           | 3.73          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH08D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | 0.89           | 6.70          |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| CP06                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| CP04                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| CP03                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| CP02                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH04HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH03HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| BH05HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR   | NR                               | NR              | NR                          | NR             | NR            |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |      |                                  |                 |                             |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
| Document No. C-042                                                                                                                             |            | Version: 2.8 (Final)        |                 | Issue Date: 19/05/2021 |                 | Authors: John Rhoades / Chris Everitt |                |             |                  |                        |      | Authorised By: Richard Lawless   |                 |                             |                |               |         |                                                                                                                                                                                                                                                                                                                                                                                |        |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             |                        |                |               |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|-----------------|--------|-----------------|-------------------------|----------------|-------------|------------------|------------------------|------|----------------------------------|-----------------------------|------------------------|----------------|---------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|---------|
| Site Name                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Oldlands Farm, Bognor Regis |                 |        |                 |                         |                | Job number  |                  | 20-1543.07             |      |                                  | WEATHER                     |                        | Start          | End           |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| Client                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | Lysander                    |                 |        |                 |                         |                | Recorded by |                  | BC                     |      |                                  | Time                        |                        | 9:15           | 15:15         |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| Date (DD/MM/YYYY)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 12/05/2021                  |                 |        |                 |                         |                |             |                  |                        |      |                                  | Weather (dry/rain/snow/ice) |                        | Dry            |               | Dry                                |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| Gas Analyser                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | GFM436 (GSOU-LON) - 13325   |                 |        |                 |                         |                |             |                  |                        |      |                                  | Visit Number                |                        | 4              |               |                                    | Pressure (mb)                                                                                                                                                                                                                                                                                                                                                                         |  | 1005.00 | 1000.00 |
| Readings at start                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | CH <sub>4</sub> (% v/v)     |                 | <0.1   |                 | CO <sub>2</sub> (% v/v) |                | <0.1        |                  | O <sub>2</sub> (% v/v) |      | 20.7                             |                             | H <sub>2</sub> S (ppm) |                | <0            |                                    | Rising/Falling Trend                                                                                                                                                                                                                                                                                                                                                                  |  |         |         |
| General comments                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             | Wind Speed (m/s)       |                | 6.00          |                                    | 5.00                                                                                                                                                                                                                                                                                                                                                                                  |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             | Wind Dir. (From)       |                | S             |                                    | SW                                                                                                                                                                                                                                                                                                                                                                                    |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             | Temperature °C         |                | 13.00         |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             | SWL Measured from      |                | Ground Level  |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GROUND GAS |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             |                        | GROUNDWATER    |               |                                    | <b>Notes</b><br>(e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>\$ For Depth to water state<br>Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)<br># For Depth to Product state<br>ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product) |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Flow       |                             | CH <sub>4</sub> |        | CO <sub>2</sub> |                         | O <sub>2</sub> |             | H <sub>2</sub> S | CO                     | VOC  | Differential (Relative) Pressure | Atmos Pressure              | Depth to free product  | Depth to water | Depth to base |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | l/hr       |                             | % v/v           |        | % v/v           |                         | % v/v          |             | ppm              |                        |      |                                  |                             |                        |                |               |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Max        | Steady                      | Max             | Steady | Max             | Steady                  | Min            | Steady      | Max              | Max                    | Max  | mb                               | mb                          | m                      | m              | m             |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet                                                                                                                                                                                                                                                                                                                                             |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             |                        |                |               |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP01                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | NR             | NR            |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP02                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 20.8           | 20.8        | <10              | <10                    | <0.1 | 0.0                              | 1002.0                      | NR                     | 0.89           | 1.80          | Flat Cover                         |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP03                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | NR             | NR            |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP04                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | NR             | NR            |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP05                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | NR             | NR            |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| VP06                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | NR             | NR            |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH01S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 1.2             | 1.2                     | 20.1           | 20.1        | <10              | <10                    | 0.1  | 0.0                              | 1002                        | NR                     | 1.50           | 1.51          | Top Hat = 0.32m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH01D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 1.2             | 1.2                     | 19.2           | 19.2        | <10              | <10                    | <0.1 | 0.0                              | 1000                        | NR                     | 1.89           | 5.86          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH02S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 0.7             | 0.7                     | 18.9           | 18.9        | <10              | <10                    | <0.1 | 0.0                              | 1002                        | NR                     | 0.90           | 3.62          | Top Hat = 0.22m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH02D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | <0.1                        | <0.1            | <0.1   | <0.1            | 0.5                     | 0.5            | 20.6        | 20.6             | <10                    | <10  | <0.1                             | 1003.0                      | NR                     | 0.96           | 6.67          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH03S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 0.4             | 0.4                     | 20.2           | 20.2        | <10              | <10                    | <0.1 | 0.0                              | 1002                        | NR                     | 0.93           | 2.81          | Top Hat = 0.26m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH03D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | 0.96           | 6.96          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH04S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 0.2             | 0.2                     | 20.7           | 20.7        | <10              | <10                    | 6.8  | 0.0                              | 1005.0                      | NR                     | 0.91           | 1.10          | Top Hat height = 0.35m Hex = 0.022 |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH04D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 0.1             | 0.1                     | 20.6           | 20.6        | <10              | <10                    | 0.2  | 0.0                              | 1007                        | NR                     | 1.24           | 4.71          | Hex = 0.020                        |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH05S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | 0.4             | 0.4                     | 20.6           | 20.6        | <10              | <10                    | <0.1 | 0.0                              | 1001                        | NR                     | 0.67           | 3.20          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH05D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | 0.68           | 5.90          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH06S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 0.1            | 0.1         | <10              | <10                    | 0.5  | 0.0                              | 1003                        | NR                     | 0.84           | 2.88          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH06D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | 0.98           | 6.38          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH07S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 20.8           | 20.8        | <10              | <10                    | 0.1  | 0.0                              | 1003                        | NR                     | 1.20           | 2.47          | Top Hat = 0.32m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH07D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | 1.20           | 5.98          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH08S                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 20.9           | 20.9        | <10              | <10                    | 0.4  | 0.0                              | 1004                        | NR                     | 0.85           | 3.65          | Top Hat = 0.30m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH08D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NR         | NR                          | NR              | NR     | NR              | NR                      | NR             | NR          | NR               | NR                     | NR   | NR                               | NR                          | NR                     | 0.85           | 6.42          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| CP06                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.1       | <0.1                        | <0.1            | <0.1   | 0.2             | 0.2                     | 20.6           | 20.6        | <0.1             | <0.1                   | 0.3  | 0.0                              | 1007                        | NR                     | 0.86           | 19.19         | Top Hat = 0.25                     |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| CP04                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 20.8           | 20.8        | <10              | <10                    | 1.2  | 0.0                              | 1001                        | NR                     | 0.87           | 18.15         | Top Hat = 0.23 Hex = 0.023         |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| CP03                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.1       | <0.1                        | <0.1            | <0.1   | <0.1            | <0.1                    | 20.6           | 20.6        | <10              | <10                    | 2.5  | 0.0                              | 1003                        | NR                     | 0.91           | 20.45         | Top Hat = 0.27m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| CP02                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.1       | <0.1                        | <0.1            | <0.1   | 0.3             | 0.3                     | 20.6           | 20.6        | <10              | <10                    | 0.7  | 0.0                              | 1003                        | NR                     | 0.93           | 16.33         | Top Hat = 0.20m                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH04HY                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <0.1       | <0.1                        | <0.1            | <0.1   | 0.1             | 0.1                     | 20.8           | 20.8        | <10              | <10                    | 0.1  | 0.0                              | 1003                        | NR                     | 0.68           | 7.91          | BH 04 - HYDROCK                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH03HY                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <0.1       | <0.1                        | <0.1            | <0.1   | 2.2             | 2.2                     | 19.5           | 19.5        | <10              | <10                    | <0.1 | 0.0                              | 1000                        | NR                     | 1.66           | 2.62          | BH03 - HYDROCK                     |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| BH05HY                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <0.1       | <0.1                        | <0.1            | <0.1   | 0.4             | 0.4                     | 20.7           | 20.7        | <10              | <10                    | 0.1  | 0.0                              | 1000                        | NR                     | 0.75           | 4.80          |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |
| <div> <div>Document No: CH07</div> <div>Version: 2.8 (Final)</div> <div>Issue Date: 19/05/2021</div> <div>Authors: John Rhoades / Chris Everitt</div> <div>Authorised By: Richard Lawless</div> </div> <div>       © Delta-Simons Environmental Consultants Limited. No part of this document may be reproduced unless prior written permission has been granted.        </div> |            |                             |                 |        |                 |                         |                |             |                  |                        |      |                                  |                             |                        |                |               |                                    |                                                                                                                                                                                                                                                                                                                                                                                       |  |         |         |

|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|-----------------|------------------------|-----------------|---------------------------------------|----------------|-------------|------------------|------------------------|-----|----------------------------------|-----------------|-----------------------------|----------------|-------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|---|
| Site Name                                                                                                                                      |            | Oldlands Farm, Bognor Regis |                 |                        |                 |                                       |                | Job number  |                  | 20-1543.07             |     |                                  |                 | WEATHER                     |                | Start             | End          |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| Client                                                                                                                                         |            | Lysander                    |                 |                        |                 |                                       |                | Recorded by |                  | JS                     |     |                                  |                 | Time                        |                | 11.30             | 16.00        |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| Date (DD/MM/YYYY)                                                                                                                              |            | 07/07/2021                  |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 | Weather (dry/rain/snow/ice) |                | Dry               |              | Dry                                                                                                                                                                                                                                                                                                                                                                            |  |               |   |
| Gas Analyser                                                                                                                                   |            | GFM436 (GSOU-LON) - 13325   |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 | Visit Number                |                | 5                 |              |                                                                                                                                                                                                                                                                                                                                                                                |  | Pressure (mb) |   |
| Readings at start                                                                                                                              |            | CH <sub>4</sub> (% v/v)     |                 | <0.1                   |                 | CO <sub>2</sub> (% v/v)               |                | <0.1        |                  | O <sub>2</sub> (% v/v) |     | 20.8                             |                 | H <sub>2</sub> S (ppm)      |                | <1                |              | Rising/Falling Trend                                                                                                                                                                                                                                                                                                                                                           |  | Rising        |   |
| General comments                                                                                                                               |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                | Wind Speed (m/s)  |              | 8.00                                                                                                                                                                                                                                                                                                                                                                           |  | 8.00          |   |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                | Wind Dir. (From)  |              | SSW                                                                                                                                                                                                                                                                                                                                                                            |  | SSW           |   |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                | Temperature °C    |              | 18.00                                                                                                                                                                                                                                                                                                                                                                          |  |               |   |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                | SWL Measured from |              | Ground Level                                                                                                                                                                                                                                                                                                                                                                   |  |               |   |
| Ref                                                                                                                                            | GROUND GAS |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             | GROUNDWATER    |                   |              | Notes<br>(e.g. water colour, sheen, odour, damage to well or gas tap, flooded ground etc.)<br>\$ For Depth to water state<br>Depth to water or Dry or NR (= Not Recorded - provide reason if monitoring was intended)<br># For Depth to Product state<br>ND (= Not detected - product looked for but absent) or NR (= Not Recorded - instrument used unable to detect product) |  |               |   |
|                                                                                                                                                | Flow       |                             | CH <sub>4</sub> |                        | CO <sub>2</sub> |                                       | O <sub>2</sub> |             | H <sub>2</sub> S | CO                     | VOC | Differential (Relative) Pressure | Atmos. Pressure | Depth to free product       | Depth to water | Depth to base     |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
|                                                                                                                                                | l/hr       |                             | % v/v           |                        | % v/v           |                                       | % v/v          |             | ppm              |                        |     |                                  |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
|                                                                                                                                                | Max        | Steady                      | Max             | Steady                 | Max             | Steady                                | Min            | Steady      | Max              | Max                    | Max |                                  |                 |                             |                |                   | mb           |                                                                                                                                                                                                                                                                                                                                                                                |  | mb            | m |
| The formulae require that only numbers, "<0.1" for ground gas and flow or "DRY" for groundwater are entered in the sheet                       |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| VP01                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| VP02                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| VP03                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| VP04                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | 1.2             | 1.2                                   | 19.2           | 19.2        | <10              | <10                    | 0.1 | 0.0                              | 1007.0          | NR                          | 1.08           | 1.48              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| VP05                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| VP06                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | 0.83           | 1.53              | Bung Missing |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH01S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 2.2             | 2.2                                   | 18.0           | 18.0        | <10              | <10                    | 0.0 | 0.0                              | 1007            | NR                          | 1.88           | 5.71              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH01D                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 2.3             | 2.3                                   | 16.2           | 16.2        | <10              | <10                    | 0.8 | 0.0                              | 1007            | NR                          | 1.88           | 5.71              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH02S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.6             | 0.6                                   | 19.8           | 19.8        | <10              | <10                    | 0.0 | 0.0                              | 1008            | NR                          | 1.00           | 3.60              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH02D                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.2             | 0.2                                   | 20.6           | 20.6        | <10              | <10                    | 0.0 | 0.0                              | 1008            | NR                          | 1.03           | 6.46              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH03S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.4             | 0.4                                   | 20.3           | 20.3        | <10              | <10                    | 0.0 | 0.0                              | 1008            | NR                          | 0.89           | 2.70              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH03D                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.1             | 0.1                                   | 20.7           | 20.7        | <10              | <10                    | 0.0 | 0.0                              | 1008.0          | NR                          | 0.89           | 6.86              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH04S                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 3.8             | 3.8                                   | 16.7           | 16.7        | <10              | <10                    | 0.0 | 0.0                              | 1007.0          | NR                          | 1.01           | 1.01              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH04D                                                                                                                                          | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.1             | 0.1                                   | 20.5           | 20.5        | <10              | <10                    | 0.0 | 0.0                              | 1007            | NR                          | 1.25           | 4.50              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH05S                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| BH05D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| BH06S                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| BH06D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| BH07S                                                                                                                                          | 3.1        | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 20.8           | 20.8        | <10              | <10                    | 0.0 | 0.0                              | 1007            | NR                          | 1.14           | 2.22              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH07D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | 1.16           | 5.83              | Bung Missing |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH08S                                                                                                                                          | 23.7       | 3.0                         | <0.1            | <0.1                   | 0.9             | 0.9                                   | 19.6           | 19.6        | <10              | <10                    | 2.3 | 0.0                              | 1007            | NR                          | 0.85           | 3.53              |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH08D                                                                                                                                          | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| CP06                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 20.6           | 20.6        | <10              | <10                    | 0.0 | 0.0                              | 1007            | NR                          | 0.85           | 18.95             |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| CP04                                                                                                                                           | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | Bung Missing                                                                                                                                                                                                                                                                                                                                                                   |  |               |   |
| CP03                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | <0.1            | <0.1                                  | 20.9           | 20.9        | <10              | <10                    | 0.0 | 0.0                              | 1007            | NR                          | 0.89           | 20.11             |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| CP02                                                                                                                                           | <0.1       | <0.1                        | <0.1            | <0.1                   | 0.3             | 0.3                                   | 20.5           | 20.5        | <10              | <10                    | 4.0 | 0.0                              | 1008            | NR                          | 0.93           | 16.15             |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH04HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           | not located, potentially destroyed by travellers                                                                                                                                                                                                                                                                                                                               |  |               |   |
| BH03HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | NR             | NR                | NR           |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| BH05HY                                                                                                                                         | NR         | NR                          | NR              | NR                     | NR              | NR                                    | NR             | NR          | NR               | NR                     | NR  | NR                               | NR              | NR                          | 1.8            | 4.7               | Bung Missing |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
|                                                                                                                                                |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
| Document No. C-142                                                                                                                             |            | Version: 2.8 (Final)        |                 | Issue Date: 19/05/2021 |                 | Authors: John Rhoades / Chris Everitt |                |             |                  |                        |     | Authorised By: Richard Lawless   |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |
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|                                                           |            |                             |                 |                        |                 |                                       |                |             |                  |                        |     |                                  |                 |                             |                |                   |              |                                                                                                                                                                                                                                                                                                                                                                                |  |               |   |

|                                                                              | units          | Infill 1         | Infill 2    | Infill 3    |
|------------------------------------------------------------------------------|----------------|------------------|-------------|-------------|
| Length                                                                       | m              | 2.40             |             |             |
| Width                                                                        | m              | 0.60             |             |             |
| Depth                                                                        | m              | 2.20             |             |             |
| Gravel type                                                                  |                | 20mm single size |             |             |
| Voids ratio                                                                  |                | 0.40             |             |             |
| Resting groundwater level at time of testing                                 | m              | 2.02             |             |             |
| Depth of first reading                                                       | m              | 1.24             | 0.00        | 0.00        |
| Depth of final reading                                                       | m              | 1.74             | 0.00        | 0.00        |
| Did soakage test reach 25% of maximum fill depth?                            |                | No               | No          | No          |
| Did soakage test reach near empty?                                           |                | No               | No          | No          |
| Depth at 75% full/effective depth                                            | m              | 1.37             | 0.00        | 0.00        |
| Depth at 25% full/effective depth                                            | m              | 1.62             | 0.00        | 0.00        |
| Time at 75% full/effective depth                                             | mins           | 10.26            | #N/A        | #N/A        |
| Time at 25% full/effective depth                                             | mins           | 27.22            | #N/A        | #N/A        |
| Vp75 - 25 (volume outflowing between 75% and 25% full/effective depth)       | m <sup>3</sup> | 0.14             | 0.00        | 0.00        |
| Mean surface area for outflow (50% full/effective depth)                     | m <sup>2</sup> | 2.94             | 1.44        | 1.44        |
| tp75 (time for the water level to fall from 75% to 25% full/effective depth) | mins           | 16.96            | #N/A        | #N/A        |
| Soil infiltration rate, f =                                                  | m/s            | Failed Test      | Failed Test | Failed Test |
| or                                                                           | m/s            | Failed Test      | Failed Test | Failed Test |

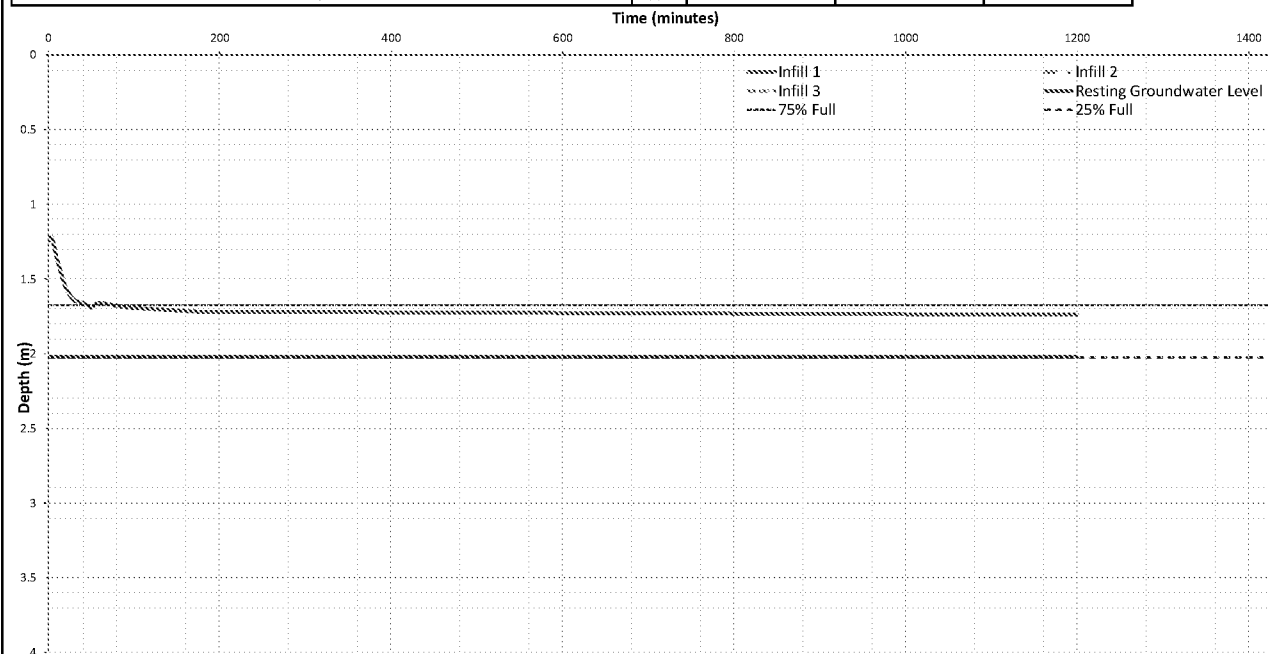
Recommended soil infiltration rate

Failed Test

m/s

**Note:**

**Where water level reaches nearly empty (5% full), soil infiltration based on 'Full' depth. Where water level did not reach nearly empty (5% full), soil infiltration rate is based on 'Effective' drainage achieved only. Where water level did not fall below 25% of the maximum fill level, this is considered to be a 'Failed' test.**



**LOG**

**BACKFILL**

| DEPTH (m)                                                                    | DEPTH (m)    |
|------------------------------------------------------------------------------|--------------|
| Topsoil 0.0                                                                  | Arisings 0.0 |
| Soft locally firm orangish brown and off white gravelly sandy silty CLAY 0.4 |              |
|                                                                              | Gravel 1.5   |
| 2.2                                                                          | 2.2          |

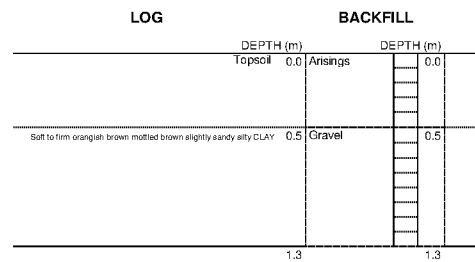


TITLE: Soakaway Test Results  
Bognor Regis  
Lysander

In accordance with BRE Digest 365 (2016)

|                  |                     |                            |
|------------------|---------------------|----------------------------|
| DRAWN BY: CB     | SCALE: Not to Scale | PROJECT NUMBER: 20-1543.07 |
| CHECKED BY: SS   | REVISION: 1         | SOAKAWAY NUMBER: SA01      |
| DATE: 13/04/2021 |                     |                            |

**Note:**  
*Where water level reaches nearly empty (5% full), soil infiltration based on 'Full' depth. Where water level did not reach nearly empty (5% full), soil infiltration rate is based on 'Effective' drainage achieved only. Where water level did not fall below 25% of the maximum fill level, this is considered to be a 'Failed' test.*



## Appendix J – Risk Definitions

## Contaminated Land Risk Definitions

The following methodology is based on the methodology presented in CIRIA C552 Contaminated Land Risk Assessment: A Guide to Good Practice 2001. It requires the classification of the:

- ▲ Magnitude of the potential consequence (severity) of the Risk occurring: and
- ▲ Magnitude of the Probability (likelihood) of the Risk occurring.

The classifications are then compared to indicate the risk presented by each pollutant linkage.

### Consequence to Receptor Definition Matrix

|                           | Human Health                                                                                                       | Controlled Waters                                                     | Buildings/Services                                                                                       |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Severe Consequence</b> | Acute or chronic permanent impact on human health.                                                                 | Sensitive controlled water pollution ongoing, or just about to occur. | Catastrophic collapse                                                                                    |
| <b>Medium Consequence</b> | Chronic permanent impact on human health                                                                           | Gradual pollution of sensitive controlled water                       | Degradation of materials                                                                                 |
| <b>Mild Consequence</b>   | Chronic temporary impact on human health                                                                           | Gradual pollution of non-sensitive controlled water                   | Damage to building rendering it unsafe to occupy (eg foundation damage resulting in instability).        |
| <b>Minor Consequence</b>  | Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). | Slight discoloration of water                                         | Easily repairable effects of damage to buildings, structures and services, i.e discoloration of concrete |

### Probability Definitions

| Probability           | Definition in Context                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Higher</b>         | There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.<br>Positive evidence of source, pathway and receptor.                                                         |
| <b>Likely</b>         | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.<br>Suspect source, pathway, and receptor |
| <b>Low Likelihood</b> | There is a pollution linkage and circumstances are possible under which an event could occur.<br>However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.                                                                        |
| <b>Unlikely</b>       | There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term<br>No evidence of hazard, pathway, and receptor                                                                                                                             |

## Standard Risk Matrix

|             |                | Consequence/Magnitude of impact |              |              |              |
|-------------|----------------|---------------------------------|--------------|--------------|--------------|
|             |                | Severe                          | Medium       | Mild         | Minor        |
| Probability | High           | Very High                       | High         | Moderate     | Moderate/Low |
|             | Likely         | High                            | Moderate     | Moderate/low | Low          |
|             | Low Likelihood | Moderate                        | Moderate/low | Low          | Very Low     |
|             | Unlikely       | Moderate/low                    | Low          | Very Low     | Very Low     |

## Classified risks and likely action

| Significance Level    | Definition/Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Very High Risk</b> | <p>There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening.</p> <p>This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.</p> <p>Demonstrable contaminated land situation, highest threat &amp; liability level, urgent action recommended.</p>                                                          |
| <b>High Risk</b>      | <p>Harm is likely to arise to a designated receptor from an identified hazard.</p> <p>Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.</p> <p>Likely contaminated land situation, risk assessment and action recommended.</p>                                                                                                                                                        |
| <b>Moderate</b>       | <p>It is possible that harm could arise to a designated receptor from an identified hazard. However, if it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild</p> <p>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</p> <p>Plausible contaminated land situation, risk assessment and possible action recommended.</p> |
| <b>Low Risk</b>       | <p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p> <p>Unlikely contaminated land situation, possible risk assessment and possible action.</p>                                                                                                                                                                                                                                                                                         |
| <b>Very Low Risk</b>  | <p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p> <p>Negligible risk, no action recommended except vigilance for changes in conditions.</p>                                                                                                                                                                                                                                                                                                                          |

## Geotechnical Risk Classification

The geohazards listed in the report within Section 4 follow guidance presented in Clayton, C.R.I. (2001) *Managing Geotechnical Risk*, Thomas Telford and the Highways Agency document CD622 '*Managing Geotechnical Risk*' (2008) which aims to identify and manage the geotechnical risks associated with a scheme throughout its lifespan, from planning to construction to maintenance.

For each geohazard the probability of the hazard occurring (P) has been considered together with the impact it would have (I) if it were to happen to calculate the risk rating between 1 and 25.

Risks that fall within Moderate, Significant and Severe categories below are considered to be **substantial** and are therefore listed within the report.

| Probability        | (P) |          | Impact         | (I) |          | (R)     | Risk        |
|--------------------|-----|----------|----------------|-----|----------|---------|-------------|
| Very Likely (VLk)  | 5   | <b>X</b> | Very High (VH) | 5   | <b>=</b> | 20 – 25 | Severe      |
| Likely (Lk)        | 4   |          | High (H)       | 4   |          | 15 – 19 | Substantial |
| Plausible (P)      | 3   |          | Medium (M)     | 3   |          | 10 – 14 | Moderate    |
| Unlikely (U)       | 2   |          | Low (L)        | 2   |          | 5 – 9   | Minor       |
| Very Unlikely (VU) | 1   |          | Very Low (VL)  | 1   |          | 1 – 4   | Negligible  |

## Appendix K – Geotechnical Risk Register

## Preliminary Geotechnical Risk Register

The Preliminary Geotechnical Risk Register has been compiled to show the degree of risk attached to various ground related aspects of the proposed development. The purpose of the register is to provide an assessment of the risk to the project posed by common ground related problems and identify suitable mitigation measures that control the risk to an acceptable level. The risk register should be developed and refined as the geotechnical design and assessment progresses such that the register will allow the management of the geotechnical risks.

The Geotechnical Risk Register has been developed in general accordance with the guidance presented in ICE/DETR Document 'Managing Geotechnical Risk' (2001) and the HE documents CS641 and CD622. The degree of risk (R) is determined by combining an assessment of the probability (P) of the hazard occurring with an assessment of the Impact (I) the hazard and associated mitigation will cause if it occurs ( $R = P \times I$ ). The scale against which the probability and impact are measure and the resulting degree of risk determined is presented below.

The inclusion of a risk in the register does not constitute confirmation that the problem actually exists at the Site. A probability of 'very unlikely' is indicative of a condition which the available data suggests should not be present. The calculated risk is not the risk that the impact will occur, it is the risk that the mitigation will be required to enable the project to progress. For the purposes of this risk register the magnitude of each impact and the resulting severity of risk is measured against that which would/could 'normally' be expected for each element. Before incorporation into a project risk register the impacts and risks for each element should be moderated by an assessment of the cost and time implication of individual mitigation measures.

| Probability        | (P) | <b>X</b> | Impact         | (I) | <b>=</b> | (R)     | Risk        |
|--------------------|-----|----------|----------------|-----|----------|---------|-------------|
| Very Likely (VLk)  | 5   |          | Very High (VH) | 5   |          | 20 – 25 | Severe      |
| Likely (Lk)        | 4   |          | High (H)       | 4   |          | 15 – 19 | Substantial |
| Plausible (P)      | 3   |          | Medium (M)     | 3   |          | 10 – 14 | Moderate    |
| Unlikely (U)       | 2   |          | Low (L)        | 2   |          | 5 – 9   | Minor       |
| Very Unlikely (VU) | 1   |          | Very Low (VL)  | 1   |          | 1 – 4   | Negligible  |

|                                        | Site Features / Ground Conditions                                                                                       | Hazard                                                                                       | Potential Impact                                                                                                                                          | Before Control        |                     |      | Comments and Potential Mitigation                                                                                                                                                                                                                    |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        |                                                                                                                         |                                                                                              |                                                                                                                                                           | Probability of Hazard | Magnitude of impact | Risk |                                                                                                                                                                                                                                                      |
| <b>Slopes and Earthworks</b>           | Varying site levels within the Flood Compensation Area and Site Development Area                                        | Requirement for cut / fill to accommodate proposal                                           | Unsuitable formations and unstable earthworks. Increased costs and time delays for the treatment of materials through either natural drying or additives. | 4                     | 4                   | 16   | <ol style="list-style-type: none"> <li>1. Earthworks designed by suitably experienced engineers</li> <li>2. Further robust testing regime to determine the suitability of materials for use.</li> </ol>                                              |
| <b>Foundations &amp; Substructures</b> | Loose or soft, compressible soils at shallow depth beneath the land raised area. And external areas including roadways. | Ground unsuitable for conventional shallow footings                                          | Low bearing capacity and unacceptable settlement                                                                                                          | 5                     | 4                   | 20   | <ol style="list-style-type: none"> <li>1. Surcharging or pre-loading of the land raised area to limit primary consolidation</li> <li>2. Utilise more onerous foundation techniques such as piling, penetrating the deeper competent Chalk</li> </ol> |
|                                        | Adjacent structures<br>Railway Line                                                                                     | Surcharging and pre loading could exert lateral stress on the soils beneath the railway line | Structural damage<br>Delays                                                                                                                               | 3                     | 3                   | 9    | <ol style="list-style-type: none"> <li>1. Further detailed analysis will need to be undertaken by structural engineers and early engagement with network rail will need to be sought.</li> </ol>                                                     |
|                                        | Trees / hedgerows in vicinity of proposed structures                                                                    | Shrinking / swelling clay                                                                    | Damage to foundations and pavements                                                                                                                       | 3                     | 3                   | 9    | <ol style="list-style-type: none"> <li>1. Correct foundation standoff distances to be incorporated into the proposed site layout</li> </ol>                                                                                                          |

|                                          | Site Features /<br>Ground Conditions               | Hazard                                                                                                    | Potential Impact                        | Before Control           |                        |      | Comments and Potential Mitigation                                                                                                                                        |
|------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          |                                                    |                                                                                                           |                                         | Probability of<br>Hazard | Magnitude of<br>impact | Risk |                                                                                                                                                                          |
| Floor slabs and<br>road pavements        | Soft and compressible<br>near-surface soil         | Low CBR due to soft<br>formation                                                                          | Surface damage or<br>alternative design | 4                        | 2                      | 8    | 1. Surcharging and pre loading external areas should increase CBR values across the Site however CBR tests should be undertaken at formation level prior to construction |
| Temporary Works &<br>Construction Issues | Loose strata at shallow<br>depth                   | Unstable excavations                                                                                      | Health & Safety                         | 4                        | 2                      | 8    | 1. Temporary shoring<br>2. PPE<br>3. Dewatering                                                                                                                          |
|                                          | High groundwater<br>table / perched<br>groundwater | Unstable excavations,<br>Catastrophic flooding of<br>excavations/ areas<br>designated for<br>construction | Health & Safety                         | 4                        | 2                      | 8    | 1. Temporary shoring<br>2. PPE<br>3. Dewatering<br>4. Unable to undertake construction works until flood levels have reduced.                                            |

## Appendix L – Hotspot Protocol

# Protocol for Addressing Previously Unidentified 'Hotspots' of Contamination

As with any Brownfield development, there is a possibility that an unknown area of soil contamination may be encountered during excavation works. Should an area of contamination be identified by visual or olfactory means the following procedure will be followed:

- ⌘ Immediately stop all works in the area where contamination is suspected.
- ⌘ Immediately inform the Site Agent who should then contact the Environmental Consultant.
- ⌘ The Environmental Consultant will provide a verbal response outlining immediate actions with regard to Site Health and Safety and to limit the potential for contaminants to migrate.
- ⌘ The Environmental Consultant will judge each occurrence on merit and should it be deemed necessary. The Environmental Consultant will attend Site to oversee the removal of the 'hotspot' and collect validation samples.
- ⌘ Any excavated material should be isolated from all other material at the Site, on plastic sheeting and covered with plastic sheeting until the material can be tested for contamination and an appropriate disposal route can be identified.
- ⌘ Any 'hotspot' stockpiles and excavations should be fenced off, have appropriate signage and their locations recorded on a Site drawing.
- ⌘ Should any excavated material be required to be disposed of at an off-Site location, the material will be isolated from all other material at the Site prior to disposal at a suitably licensed facility. All documentation associated with the movement and disposal of any such material will be supplied to The Environmental Consultant, including waste transfer documentation.
- ⌘ Subject to appropriate Site Health & Safety controls (typically comprising fencing off the excavation) the excavation will remain open until the validation has been completed. Alternatively, for Site Health & Safety reasons, it may be necessary to backfill the excavation with Site derived material. In this case, the location of the excavation will be accurately recorded, and the excavation reopened if required, based on the validation results; and
- ⌘ The Regulatory Authorities shall be informed by the Environmental Consultant of any remedial activities required and associated validation testing results. Representatives of these organisations may also wish to visit the Site.