

## B. Peat Cores, Hand Shear Vane and Lab Testing Results

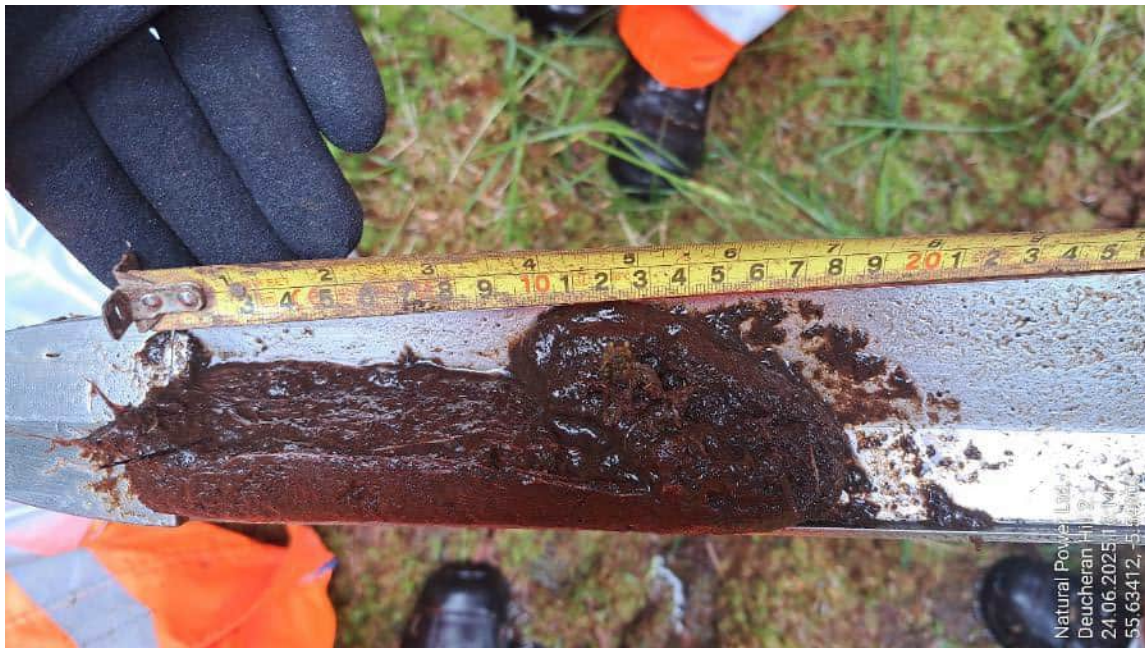
## B.1. Peat Cores

## Deucheran Hill 2 Peat Core Photographs

T09 0 – 0.50 m



Substation 1 – 0 – 0.20m



Substation 1 - 0.20 – 0.60m



Substation 1 – 0.60 – 1.10m



Substation 1 – 1.10 – 1.60m



Substation 2 – 0 – 0.50m



Substation 2 – 0.50 – 1m



Substation 2 – 1 - 1.50m



T07 0 – 0.50m



T11 – 0 – 0.50m



T11 0.50 – 1.0m



T06 0 – 0.20m



T06 0.20 – 0.70m



T06 0.70 – 1.20m



T05 0 – 0.50m



T05 – 0.50 – 1.0m



Substation 3 – 0 - 0.40m



Substation 3 – 0.40 – 0.90m



Substation 3 – 0.90-1.10m



Substation 4 – 0 – 0.40m



Substation 4 – 0.40 - 0.90m



Substation 4 – 0.90 – 1.40m



Substation 4 – 1.10 – 1.60m



Substation 4 – 1.60 - 2.10m



Substation 4 – 1.90-2.40m



T08 – 0 – 0.50m



T01 – 0 – 0.50m



T01 – 0.50 – 1.0m



T01 – 1.0-1.50m



T01 1.50-2.0m



T10 0 – 0.50m



T10 - 0.50-0.80m



T10 0.80-1.30m



T10 1.30 – 1.80m



T13 – 0 – 0.50m



T13 – 0.50 – 1.0m



## B.2. Hand Shear Vane Results

| Project Name: Deucheran Hill 2 Windfarm |                                   |  |
|-----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------|
| Project ID : 19398UKC                   |                                   |                                                                                   |
| HSV Results                             | Corrected Hand Shear Vane Results |                                                                                   |
| Location                                | Depth                             | Peak Undrained Shear (kPa)                                                        |
| T08                                     | 0.25                              | 14                                                                                |
| T08                                     | 0.50                              | 23                                                                                |
| T09                                     | 0.25                              | 27.5                                                                              |
| T09                                     | 0.50                              | 17                                                                                |
| T09                                     | 0.75                              | 11                                                                                |
| T09                                     | 1.00                              | 12                                                                                |
| T09                                     | 1.25                              | 11                                                                                |
| T09                                     | 1.50                              | 14                                                                                |
| T09                                     | 1.75                              | 18                                                                                |
| T05                                     | 0.25                              | 18                                                                                |
| T05                                     | 0.50                              | 20                                                                                |
| T05                                     | 0.75                              | 21                                                                                |
| T01                                     | 0.25                              | 18                                                                                |
| T01                                     | 0.50                              | 16                                                                                |
| T01                                     | 0.75                              | 14                                                                                |
| T01                                     | 1.00                              | 12                                                                                |
| T01                                     | 1.25                              | 12                                                                                |
| T01                                     | 1.50                              | 13                                                                                |
| T01                                     | 1.75                              | 16                                                                                |
| T01                                     | 2.00                              | 32                                                                                |
| T10                                     | 0.25                              | 16                                                                                |
| T10                                     | 0.50                              | 21                                                                                |
| T10                                     | 0.75                              | 11                                                                                |
| T10                                     | 1.00                              | 10                                                                                |
| T10                                     | 1.25                              | 10                                                                                |
| T10                                     | 1.50                              | 9                                                                                 |
| T10                                     | 1.75                              | 11                                                                                |
| T11                                     | 0.25                              | 20                                                                                |
| T11                                     | 0.50                              | 17                                                                                |
| T11                                     | 0.75                              | 17                                                                                |
| T06                                     | 0.25                              | 7                                                                                 |
| T06                                     | 0.50                              | 14                                                                                |
| T06                                     | 0.75                              | 18                                                                                |
| T06                                     | 1.00                              | 19                                                                                |
| T13                                     | 0.25                              | 14                                                                                |
| T13                                     | 0.50                              | 16                                                                                |
| T13                                     | 0.75                              | 14                                                                                |
| T13                                     | 1.00                              | 28                                                                                |
| T07                                     | 0.25                              | 5                                                                                 |
| T07                                     | 0.50                              | 12                                                                                |
| BESS Compound                           | 0.25                              | 11                                                                                |
| BESS Compound                           | 0.50                              | 19                                                                                |
| BESS Compound                           | 0.75                              | 13                                                                                |
| BESS Compound                           | 1.00                              | 12                                                                                |

|                     |      |    |
|---------------------|------|----|
| BESS Compound       | 1.25 | 11 |
| BESS Compound       | 1.50 | 11 |
| BESS Compound       | 1.75 | 12 |
| BESS Compound       | 2.00 | 13 |
| BESS Compound       | 2.25 | 19 |
| BESS Compound       | 2.50 | 16 |
| Substation Compound | 0.25 | 22 |
| Substation Compound | 0.50 | 16 |
| Substation Compound | 0.75 | 10 |
| Substation Compound | 1.00 | 13 |
|                     |      |    |
|                     |      |    |

## B.3. Laboratory Results



### Certificate of Analysis

**Certificate Number** 25-15636

**Issued:** 17-Jul-25

**Client** MATTest Ltd.  
10 Queenslie Point  
120 Stepps Road  
Glasgow  
G33 3NQ

**Our Reference** 25-15636

**Client Reference** ~ 25/709

**Order No** ~ MATSC7332

**Contract Title** ~ Deucheran Hill 2

**Description** 13 Soil samples.

**Date Received** 09-Jul-25

**Date Started** 09-Jul-25

**Date Completed** 17-Jul-25

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

**Notes** Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

**Approved By**

Louise Cook  
Contracts Manager



2139

Sample Deviations present. See Deviation Table Section for details.

Symbol key  
at end of report

Normec DETS Limited  
Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY  
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Page 1 of 5

## Summary of Chemical Analysis

### Soil Samples

Our Ref ~ 25-15636

Client Ref ~ 25/709

Contract Title ~ Deucheran Hill 2

|                      |             |     |       |               |          |          |          |          |          |          |          |          |          |           |           |
|----------------------|-------------|-----|-------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
|                      |             |     |       | Lab No        | 2536153  | 2536154  | 2536155  | 2536156  | 2536157  | 2536158  | 2536159  | 2536160  | 2536161  | 2536162   | 2536163   |
|                      |             |     |       | Sample ID     | SAMPLE 1 | SAMPLE 2 | SAMPLE 3 | SAMPLE 4 | SAMPLE 5 | SAMPLE 6 | SAMPLE 7 | SAMPLE 8 | SAMPLE 9 | SAMPLE 10 | SAMPLE 11 |
|                      |             |     |       | Depth         |          |          |          |          |          |          |          |          |          |           |           |
|                      |             |     |       | Other ID      |          |          |          |          |          |          |          |          |          |           |           |
|                      |             |     |       | Sample Type   | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL     | SOIL      | SOIL      |
|                      |             |     |       | Sampling Date | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s       | n/s       |
|                      |             |     |       | Sampling Time | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s      | n/s       | n/s       |
| Test                 | Method      | LOD | Units |               |          |          |          |          |          |          |          |          |          |           |           |
| Inorganics           |             |     |       |               |          |          |          |          |          |          |          |          |          |           |           |
| Total Organic Carbon | DETSC 2084# | 0.5 | %     | 29            | 52       | 48       | 56       | 57       | 53       | 57       | 55       | 57       | 30       | 56        |           |

Symbol key at end of report

Page 2 of 5

## Summary of Chemical Analysis

### Soil Samples

Our Ref ~ 25-15636

Client Ref ~ 25/709

Contract Title ~ Deucheran Hill 2

|                                  |             |     |       |               |           |           |
|----------------------------------|-------------|-----|-------|---------------|-----------|-----------|
| Contract #106 - Deucheran Hill 2 |             |     |       |               |           |           |
|                                  |             |     |       | Lab No        | 2536164   | 2536165   |
|                                  |             |     |       | Sample ID     | SAMPLE 12 | SAMPLE 13 |
|                                  |             |     |       | Depth         |           |           |
|                                  |             |     |       | Other ID      |           |           |
|                                  |             |     |       | Sample Type   | SOIL      | SOIL      |
|                                  |             |     |       | Sampling Date | n/s       | n/s       |
|                                  |             |     |       | Sampling Time | n/s       | n/s       |
| Test                             | Method      | LOD | Units |               |           |           |
| <b>Inorganics</b>                |             |     |       |               |           |           |
| Total Organic Carbon             | DETSC 2084# | 0.5 | %     | 50            | 53        |           |

Symbol key at end of report

Page 3 of 5

## Information in Support of the Analytical Results

Our Ref 25-15636  
 Client Ref ~ 25/709  
 Contract ~ Deucheran Hill 2

### Containers Received & Deviating Samples

| Lab No  | Sample ID ~    | Date Sampled ~ | Containers Received | Holding time exceeded for tests                           | Incorrect container for tests |
|---------|----------------|----------------|---------------------|-----------------------------------------------------------|-------------------------------|
| 2536153 | SAMPLE 1 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536154 | SAMPLE 2 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536155 | SAMPLE 3 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536156 | SAMPLE 4 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536157 | SAMPLE 5 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536158 | SAMPLE 6 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536159 | SAMPLE 7 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536160 | SAMPLE 8 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536161 | SAMPLE 9 SOIL  |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536162 | SAMPLE 10 SOIL |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536163 | SAMPLE 11 SOIL |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536164 | SAMPLE 12 SOIL |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |
| 2536165 | SAMPLE 13 SOIL |                | PT 1L               | Sample date not supplied, Organic Matter (Auto) (28 days) |                               |

Key: P-Plastic T-Tub

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

### Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

### Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results

\* -not accredited.

## Information in Support of the Analytical Results

*Our Ref* 25-15636

*Client Ref* ~ 25/709

*Contract* ~ Deucheran Hill 2

# -MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.03.07



## LABORATORY TEST CERTIFICATE

**Certificate No :** 25/709 - 01-1  
**To :** Evelin Erös  
**Client :** Natural Power Consultants  
 The Green House  
 Forrest Estate  
 Dalry  
 Castle Douglas  
**DG7 3XS**

10 Queenslie Point  
 Queenslie Industrial Estate  
 120 Stepps Road  
 Glasgow  
 G33 3NQ

Tel: 0141 774 4032

email: info@mattest.org  
 Website: www.mattest.org

### LABORATORY TESTING OF SOIL

#### Introduction

We refer to samples taken from Deucheran Hill 2 and delivered to our laboratory on 01st July 2025.

#### Material & Source

Sample Reference : See Report Plates  
 Sampled By : Client  
 Sampling Certificate : Not Supplied  
 Location : See Report Plates  
 Description : See Page 2  
 Date Sampled : Not Supplied  
 Date Tested : 01st July 2025 Onwards  
 Source : Deucheran Hill 2

#### Test Results

As Detailed On Page 2 to Page 4 inclusive

#### Comments

The results contained in this report relate to the sample(s) as received  
 Opinions and interpretations expressed herein are outside the scope of UKAS accreditation  
 This report should not be reproduced except in full without the written approval of the laboratory  
 All remaining samples for this project will be disposed of 28 days after issue of this test certificate

#### Remarks

#### Approved for Issue

T McLelland (Director)

Date 15/07/2025

Issue No. 01

Page 1 of 4



NATURAL POWER CONSULTANTS  
DEUCHERAN HILL 2



| BOREHOLE | SAMPLE    | DEPTH<br>(m) | SAMPLE DESCRIPTION                   |
|----------|-----------|--------------|--------------------------------------|
| -        | Sample 1  | 0.00-1.00    | PEAT (Von Post Classification - H8)  |
| -        | Sample 2  | 0.00-1.00    | PEAT (Von Post Classification - H8)  |
| -        | Sample 3  | 0.00-1.00    | PEAT (Von Post Classification - H9)  |
| -        | Sample 4  | 0.00-1.00    | PEAT (Von Post Classification - H9)  |
| -        | Sample 5  | 0.00-1.00    | PEAT (Von Post Classification - H6)  |
| -        | Sample 6  | 0.00-1.00    | PEAT (Von Post Classification - H10) |
| -        | Sample 7  | 0.00-1.00    | PEAT (Von Post Classification - H5)  |
| -        | Sample 8  | 0.00-1.00    | PEAT (Von Post Classification - H8)  |
| -        | Sample 9  | 0.00-1.00    | PEAT (Von Post Classification - H7)  |
| -        | Sample 10 | 0.00-1.00    | PEAT (Von Post Classification - H7)  |
| -        | Sample 11 | 0.00-1.00    | PEAT (Von Post Classification - H9)  |
| -        | Sample 12 | 0.00-1.00    | PEAT (Von Post Classification - H9)  |
| -        | Sample 13 | 0.00-1.00    | PEAT (Von Post Classification - H9)  |

#### SUMMARY OF SAMPLE DESCRIPTIONS

NATURAL POWER CONSULTANTS  
DEUCHERAN HILL 2



| BOREHOLE | SAMPLE    | DEPTH<br>(m) | WATER<br>CONTENT<br>(%) |
|----------|-----------|--------------|-------------------------|
| -        | Sample 1  | 0.00-1.00    | 753                     |
| -        | Sample 2  | 0.00-1.00    | 619                     |
| -        | Sample 3  | 0.00-1.00    | 1192                    |
| -        | Sample 4  | 0.00-1.00    | 805                     |
| -        | Sample 5  | 0.00-1.00    | 754                     |
| -        | Sample 6  | 0.00-1.00    | 905                     |
| -        | Sample 7  | 0.00-1.00    | 550                     |
| -        | Sample 8  | 0.00-1.00    | 347                     |
| -        | Sample 9  | 0.00-1.00    | 1118                    |
| -        | Sample 10 | 0.00-1.00    | 1051                    |
| -        | Sample 11 | 0.00-1.00    | 1036                    |
| -        | Sample 12 | 0.00-1.00    | 1182                    |
| -        | Sample 13 | 0.00-1.00    | 912                     |

BS EN ISO 17892-1 : 2014 + A1 : 2022  
BS 1377-2 : 2022

#### SUMMARY OF WATER CONTENT TEST RESULTS

NATURAL POWER CONSULTANTS  
DEUCHERAN HILL 2



| BOREHOLE | SAMPLE    | DEPTH<br>(m) | WATER<br>CONTENT<br>(%) | BULK<br>DENSITY<br>(Mg/m <sup>3</sup> ) | DRY<br>DENSITY<br>(Mg/m <sup>3</sup> ) |
|----------|-----------|--------------|-------------------------|-----------------------------------------|----------------------------------------|
| -        | Sample 1  | 0.00-1.00    | 753                     | 1.07                                    | 0.13                                   |
| -        | Sample 2  | 0.00-1.00    | 619                     | 1.07                                    | 0.15                                   |
| -        | Sample 3  | 0.00-1.00    | 1192                    | 1.02                                    | 0.08                                   |
| -        | Sample 4  | 0.00-1.00    | 805                     | 1.04                                    | 0.11                                   |
| -        | Sample 5  | 0.00-1.00    | 754                     | 1.06                                    | 0.12                                   |
| -        | Sample 6  | 0.00-1.00    | 905                     | 0.97                                    | 0.10                                   |
| -        | Sample 7  | 0.00-1.00    | 550                     | 1.07                                    | 0.16                                   |
| -        | Sample 8  | 0.00-1.00    | 347                     | 1.02                                    | 0.23                                   |
| -        | Sample 9  | 0.00-1.00    | 1118                    | 1.01                                    | 0.08                                   |
| -        | Sample 10 | 0.00-1.00    | 1051                    | 1.04                                    | 0.09                                   |
| -        | Sample 11 | 0.00-1.00    | 1036                    | 1.05                                    | 0.09                                   |
| -        | Sample 12 | 0.00-1.00    | 1182                    | 1.05                                    | 0.08                                   |
| -        | Sample 13 | 0.00-1.00    | 912                     | 1.03                                    | 0.10                                   |

BS EN ISO 17892-2 : 2014 : 5.1 - Linear Measurement Method  
BS 1377 - 2 : 2022

**SUMMARY OF WATER CONTENT  
AND BULK DENSITY TEST RESULTS**



Creating a better environment



**naturalpower.com**  
**sayhello@naturalpower.com**



For full details on our ISO and other certifications, please visit our website.

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