



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: subcontractors@earthworktesting.co.uk  
hs@earthworktesting.co.uk

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-051787**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 25/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 25/09/2025 |
| <b>Your order number:</b>   | SC1062           | <b>Analysis completed by:</b>                          | 06/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 06/10/2025 |
| <b>Samples Analysed:</b>    | 7 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-051787  
Project / Site name: Dove Valley Park  
Your Order No: SC1062

| Lab Sample Number                    | 694162                        | 694163                        | 694164                    | 694165          | 694166          |
|--------------------------------------|-------------------------------|-------------------------------|---------------------------|-----------------|-----------------|
| Sample Reference                     | C1583/13/Over Dig 2 - TP1-S28 | C1583/14/Over Dig 2 - TP2 T28 | C1583/22/AB10 L1          | C1583/23/AB6 L1 | C1583/24/AB8 L2 |
| Sample Number                        | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Water Matrix                         | N/A                           | N/A                           | N/A                       | N/A             | N/A             |
| Depth (m)                            | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Date Sampled                         | 22/09/2025                    | 22/09/2025                    | 24/09/2025                | 24/09/2025      | 24/09/2025      |
| Time Taken                           | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Analytical Parameter (Soil Analysis) | Units                         | Test Limit of detection       | Test Accreditation Status |                 |                 |

|                               |    |      |      |      |       |       |       |       |
|-------------------------------|----|------|------|------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 28.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 40.5 | 25.5  | < 0.1 | 3.7   | 4.4   |
| Moisture Content              | %  | 0.01 | NONE | 16   | 20    | 17    | 16    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.4  | 0.5   | 0.4   | 0.5   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.7    | 7.5    | 7.5    | 8      | 7.4     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 2400   | 2300   | 400    | 280    | 280     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.24   | 0.229  | 0.04   | 0.028  | 0.028   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.08   | 0.076  | 0.013  | 0.009  | 0.009   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 1300   | 1300   | 190    | 120    | 110     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 648    | 628    | 93.1   | 58.2   | 56.8    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 648    | 628    | 93.1   | 58.2   | 56.8    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0432 | 0.0419 | 0.0062 | 0.0039 | 0.0038  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 6100   | 6400   | 540    | 300    | 280     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.608  | 0.638  | 0.054  | 0.03   | 0.028   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 3700   | 4100   | 130    | 23     | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.368  | 0.409  | 0.013  | 0.002  | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.1    | 9.8    | 3      | 1.1    | 1.3     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 2000   | 2100   | 180    | 99     | 94      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.203  | 0.213  | 0.018  | 0.01   | 0.009   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 5.6    | 6.5    | 0.5    | 0.4    | 0.4     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-051787

Project / Site name: Dove Valley Park

Your Order No: SC1062

|                                         |       |                            |                              |                 |                 |
|-----------------------------------------|-------|----------------------------|------------------------------|-----------------|-----------------|
| Lab Sample Number                       |       |                            |                              | 694167          | 694168          |
| Sample Reference                        |       |                            |                              | C1583/25/AB9 L3 | C1583/26/AB7 L3 |
| Sample Number                           |       |                            |                              | None Supplied   | None Supplied   |
| Water Matrix                            |       |                            |                              | N/A             | N/A             |
| Depth (m)                               |       |                            |                              | None Supplied   | None Supplied   |
| Date Sampled                            |       |                            |                              | 24/09/2025      | 24/09/2025      |
| Time Taken                              |       |                            |                              | None Supplied   | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                 |                 |
|                                         |       |                            |                              |                 |                 |
|                                         |       |                            |                              |                 |                 |
|                                         |       |                            |                              |                 |                 |
|                                         |       |                            |                              |                 |                 |

|                               |    |      |      |       |       |
|-------------------------------|----|------|------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 13.4  | 6.4   |
| Moisture Content              | %  | 0.01 | NONE | 12    | 16    |
| Total mass of sample received | kg | 0.1  | NONE | 0.4   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.7    | 7.8    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 390    | 440    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.039  | 0.044  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.015  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150    | 240    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 77     | 122    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 77     | 122    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0051 | 0.0081 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 510    | 550    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.051  | 0.055  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 120    | 110    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.012  | 0.011  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.9    | 3.2    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 170    | 180    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.017  | 0.018  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6    | 0.7    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-051787**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 694162            | 13/Over Dig 2 -  | None Supplied | None Supplied | Brown clay and sand with vegetation and stones |
| 694163            | 14/Over Dig 2 -  | None Supplied | None Supplied | Brown clay and loam with gravel and vegetation |
| 694164            | 1583/22/AB10 L   | None Supplied | None Supplied | Brown clay                                     |
| 694165            | 1583/23/AB6 L    | None Supplied | None Supplied | Brown sandy clay                               |
| 694166            | 1583/24/AB8 L    | None Supplied | None Supplied | Brown clay with gravel                         |
| 694167            | 1583/25/AB9 L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 694168            | 1583/26/AB7 L    | None Supplied | None Supplied | Brown sandy clay with gravel                   |

Analytical Report Number : 25-051787

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: subcontractors@earthworktesting.co.uk  
hs@earthworktesting.co.uk

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-051787**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 25/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 25/09/2025 |
| <b>Your order number:</b>   | SC1062           | <b>Analysis completed by:</b>                          | 06/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 06/10/2025 |
| <b>Samples Analysed:</b>    | 7 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-051787  
Project / Site name: Dove Valley Park  
Your Order No: SC1062

| Lab Sample Number                    | 694162                        | 694163                        | 694164                    | 694165          | 694166          |
|--------------------------------------|-------------------------------|-------------------------------|---------------------------|-----------------|-----------------|
| Sample Reference                     | C1583/13/Over Dig 2 - TP1-S28 | C1583/14/Over Dig 2 - TP2 T28 | C1583/22/AB10 L1          | C1583/23/AB6 L1 | C1583/24/AB8 L2 |
| Sample Number                        | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Water Matrix                         | N/A                           | N/A                           | N/A                       | N/A             | N/A             |
| Depth (m)                            | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Date Sampled                         | 22/09/2025                    | 22/09/2025                    | 24/09/2025                | 24/09/2025      | 24/09/2025      |
| Time Taken                           | None Supplied                 | None Supplied                 | None Supplied             | None Supplied   | None Supplied   |
| Analytical Parameter (Soil Analysis) | Units                         | Test Limit of detection       | Test Accreditation Status |                 |                 |

| Stone Content                 | %  | 0.1  | NONE | 28.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
|-------------------------------|----|------|------|------|-------|-------|-------|-------|
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 40.5 | 25.5  | < 0.1 | 3.7   | 4.4   |
| Moisture Content              | %  | 0.01 | NONE | 16   | 20    | 17    | 16    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.4  | 0.5   | 0.4   | 0.5   | 0.5   |

#### General Inorganics

| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.7    | 7.5    | 7.5    | 8      | 7.4     |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|---------|
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 2400   | 2300   | 400    | 280    | 280     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.24   | 0.229  | 0.04   | 0.028  | 0.028   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.08   | 0.076  | 0.013  | 0.009  | 0.009   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 1300   | 1300   | 190    | 120    | 110     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 648    | 628    | 93.1   | 58.2   | 56.8    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 648    | 628    | 93.1   | 58.2   | 56.8    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0432 | 0.0419 | 0.0062 | 0.0039 | 0.0038  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 6100   | 6400   | 540    | 300    | 280     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.608  | 0.638  | 0.054  | 0.03   | 0.028   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 3700   | 4100   | 130    | 23     | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.368  | 0.409  | 0.013  | 0.002  | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.1    | 9.8    | 3      | 1.1    | 1.3     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 2000   | 2100   | 180    | 99     | 94      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.203  | 0.213  | 0.018  | 0.01   | 0.009   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 5.6    | 6.5    | 0.5    | 0.4    | 0.4     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-051787

Project / Site name: Dove Valley Park

Your Order No: SC1062

|                                         |                 |                              |
|-----------------------------------------|-----------------|------------------------------|
| Lab Sample Number                       | 694167          | 694168                       |
| Sample Reference                        | C1583/25/AB9 L3 | C1583/26/AB7 L3              |
| Sample Number                           | None Supplied   | None Supplied                |
| Water Matrix                            | N/A             | N/A                          |
| Depth (m)                               | None Supplied   | None Supplied                |
| Date Sampled                            | 24/09/2025      | 24/09/2025                   |
| Time Taken                              | None Supplied   | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection   |
|                                         |                 | Test Accreditation<br>Status |

|                               |    |      |      |       |       |
|-------------------------------|----|------|------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 13.4  | 6.4   |
| Moisture Content              | %  | 0.01 | NONE | 12    | 16    |
| Total mass of sample received | kg | 0.1  | NONE | 0.4   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.7    | 7.8    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 390    | 440    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.039  | 0.044  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.015  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150    | 240    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 77     | 122    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 77     | 122    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0051 | 0.0081 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 510    | 550    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.051  | 0.055  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 120    | 110    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.012  | 0.011  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.9    | 3.2    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 170    | 180    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.017  | 0.018  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6    | 0.7    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-051787**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|-------------------|---------------|---------------|------------------------------------------------|
| 694162            | 13/Over Dig 2 - 1 | None Supplied | None Supplied | Brown clay and sand with vegetation and stones |
| 694163            | 14/Over Dig 2 - 1 | None Supplied | None Supplied | Brown clay and loam with gravel and vegetation |
| 694164            | C1583/22/AB10 L   | None Supplied | None Supplied | Brown clay                                     |
| 694165            | C1583/23/AB6 L    | None Supplied | None Supplied | Brown sandy clay                               |
| 694166            | C1583/24/AB8 L    | None Supplied | None Supplied | Brown clay with gravel                         |
| 694167            | C1583/25/AB9 L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 694168            | C1583/26/AB7 L    | None Supplied | None Supplied | Brown sandy clay with gravel                   |

Analytical Report Number : 25-051787

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |          |
|----------------------------------------------------------------------------|----------------------|--------------------|----------|
| Laboratory Report                                                          | ETS/22811            | Contract Sample No | C1583/30 |
| Report Date                                                                | 08 October 2025      | ETS Contract No    | C1583/30 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |          |
|                                                                            | Source               | Ex-Site            |          |
|                                                                            | Supplier             | Ex-Site            |          |
|                                                                            | Date Sampled         | 25/09/2025         |          |
|                                                                            | Date Received        | 25/09/2025         |          |
|                                                                            | Date Completed       | 08/10/2025         |          |
|                                                                            | Sample Location      | See Below          |          |
|                                                                            | Client Reference     | C1583/30           |          |
| Dove Valley Park                                                           |                      |                    |          |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Duncroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-052662

| ETS Number | Sample Number | Location    | Material                | Testing                   |
|------------|---------------|-------------|-------------------------|---------------------------|
| ETS/22811  | 30            | AB6 Layer 4 | Brown Clay W/F-M Gravel | TRL 447, PH, Chloride Ion |

Authorised Signatory

T. McDonald

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-052662**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 30/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 30/09/2025 |
| <b>Your order number:</b>   | SC1071           | <b>Analysis completed by:</b>                          | 07/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 08/10/2025 |
| <b>Samples Analysed:</b>    | 1 soil sample    |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052662  
Project / Site name: Dove Valley Park  
Your Order No: SC1071

|                                         |       |                            |                              |                   |
|-----------------------------------------|-------|----------------------------|------------------------------|-------------------|
| Lab Sample Number                       |       |                            |                              | 699691            |
| Sample Reference                        |       |                            |                              | C1583/30/AB6 - L4 |
| Sample Number                           |       |                            |                              | None Supplied     |
| Water Matrix                            |       |                            |                              | N/A               |
| Depth (m)                               |       |                            |                              | None Supplied     |
| Date Sampled                            |       |                            |                              | 25/09/2025        |
| Time Taken                              |       |                            |                              | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                   |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.6   |
| Moisture Content              | %  | 0.01 | NONE | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |         |
|-------------------------------------------------------------------------|----------|--------|--------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 480     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.048   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.016   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.7    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.7    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.005   |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 470     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.047   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | < 0.002 |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 1.7     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-052662**

**Project / Site name: Dove Valley Park**

\* 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 * |
|-------------------|------------------|---------------|---------------|----------------------|
| 699691            | 1583/30/AB6 - L  | None Supplied | None Supplied | Brown clay           |

**Analytical Report Number : 25-052662**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

**t:** 01923 225404  
**f:** 01923 237404  
**e:** [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-052662**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 30/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 30/09/2025 |
| <b>Your order number:</b>   | SC1071           | <b>Analysis completed by:</b>                          | 07/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 08/10/2025 |
| <b>Samples Analysed:</b>    | 1 soil sample    |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052662  
Project / Site name: Dove Valley Park  
Your Order No: SC1071

|                                         |                   |                            |                              |  |
|-----------------------------------------|-------------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 699691            |                            |                              |  |
| Sample Reference                        | C1583/30/AB6 - L4 |                            |                              |  |
| Sample Number                           | None Supplied     |                            |                              |  |
| Water Matrix                            | N/A               |                            |                              |  |
| Depth (m)                               | None Supplied     |                            |                              |  |
| Date Sampled                            | 25/09/2025        |                            |                              |  |
| Time Taken                              | None Supplied     |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.6   |
| Moisture Content              | %  | 0.01 | NONE | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |         |
|-------------------------------------------------------------------------|----------|--------|--------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 480     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.048   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.016   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.7    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.7    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.005   |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 470     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.047   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | < 0.002 |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 1.7     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-052662**

**Project / Site name: Dove Valley Park**

\* 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 * |
|-------------------|------------------|---------------|---------------|----------------------|
| 699691            | 1583/30/AB6 - L  | None Supplied | None Supplied | Brown clay           |

**Analytical Report Number : 25-052662**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |             |
|----------------------------------------------------------------------------|----------------------|--------------------|-------------|
| Laboratory Report                                                          | ETS/22938-22985      | Contract Sample No | C1583/32-44 |
| Report Date                                                                | 14 October 2025      | ETS Contract No    | C1583/32-44 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |             |
| Dove Valley Park                                                           | Source               | Ex-Site            |             |
|                                                                            | Supplier             | Ex-Site            |             |
|                                                                            | Date Sampled         | 26/09/2025         |             |
|                                                                            | Date Received        | 26/09/2025         |             |
|                                                                            | Date Completed       | 10/10/2025         |             |
|                                                                            | Sample Location      | See Below          |             |
|                                                                            | Client Reference     | C1583/32-44        |             |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-052669

| ETS Number | Sample Number | Location     | Material                          | Testing                        |
|------------|---------------|--------------|-----------------------------------|--------------------------------|
| ETS/22938  | 32            | AB10 Layer 5 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22939  | 33            | AA9 Layer 1  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22941  | 35            | AA8 Layer 1  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22978  | 37            | Z12 Layer 2  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22979  | 38            | AA8 Layer 2  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22980  | 39            | AB6 Layer 7  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22981  | 40            | AB4 Layer 1  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22982  | 41            | Z10 Layer 3  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22983  | 42            | AB8 Layer 8  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22984  | 43            | AA6 Layer 3  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/22985  | 44            | AA4 Layer 2  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |

Authorised Signatory

T. McDonald

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

**t:** 01923 225404  
**f:** 01923 237404  
**e:** [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-052669**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 30/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 30/09/2025 |
| <b>Your order number:</b>   | SC1075           | <b>Analysis completed by:</b>                          | 10/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 10/10/2025 |
| <b>Samples Analysed:</b>    | 11 soil samples  |                                                        |            |



**Signed:**

Dominika Liana  
Junior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |       |                            |                              |                    |                   |                   |                   |                   |
|-----------------------------------------|-------|----------------------------|------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Lab Sample Number                       |       |                            |                              | 699710             | 699711            | 699712            | 699713            | 699714            |
| Sample Reference                        |       |                            |                              | C1583/32/AB10 - L5 | C1584/33/AA5 - L1 | C1585/35/AA8 - L1 | C1586/37/L12 - L2 | C1587/38/AA8 - L2 |
| Sample Number                           |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Water Matrix                            |       |                            |                              | N/A                | N/A               | N/A               | N/A               | N/A               |
| Depth (m)                               |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Date Sampled                            |       |                            |                              | 26/09/2025         | 26/09/2025        | 26/09/2025        | 29/09/2025        | 29/09/2025        |
| Time Taken                              |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                    |                   |                   |                   |                   |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 15.5  | 2.6   | 3.4   | 15.8  | 32    |
| Moisture Content              | %  | 0.01 | NONE | 14    | 16    | 12    | 16    | 12    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |         |        |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|---------|--------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.8    | 7       | 6.9    | 7.5     | 7.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 370    | 250     | 310    | 210     | 230     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.037  | 0.025   | 0.031  | 0.021   | 0.023   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012  | 0.008   | 0.01   | 0.007   | 0.008   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180    | 130     | 140    | 76      | 85      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 91.1   | 65      | 71.7   | 38.2    | 42.5    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 91.1   | 65      | 71.7   | 38.2    | 42.5    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0061 | 0.0043  | 0.0048 | 0.0025  | 0.0028  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 400    | 270     | 360    | 190     | 250     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.04   | 0.027   | 0.036  | 0.019   | 0.025   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 27     | < 20    | 53     | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003  | < 0.002 | 0.005  | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.1    | 1.2     | 1.5    | 2.2     | 2.6     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130    | 91      | 120    | 62      | 84      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013  | 0.009   | 0.012  | 0.006   | 0.008   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.1    | 0.4     | 0.5    | 0.7     | 0.4     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |                   |                            |                              |                   |                   |
|-----------------------------------------|-------------------|----------------------------|------------------------------|-------------------|-------------------|
| Lab Sample Number                       | 699715            | 699716                     | 699717                       | 699718            | 699719            |
| Sample Reference                        | C1588/39/AB6 - L7 | C1589/40/AB4 - L1          | C1590/41/L10 - L3            | C1591/42/AB8 - L8 | C1592/43/AA6 - L3 |
| Sample Number                           | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Water Matrix                            | N/A               | N/A                        | N/A                          | N/A               | N/A               |
| Depth (m)                               | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Date Sampled                            | 29/09/2025        | 29/09/2025                 | 29/09/2025                   | 29/09/2025        | 29/09/2025        |
| Time Taken                              | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |                   |                   |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.1   | 12.1  | < 0.1 | 0.9   | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 16    | 10    | 20    | 19    | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |        |         |        |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|--------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 6.5    | 6.9     | 7.7    | 6.6     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 330    | 360    | 400     | 400    | 590     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.033  | 0.036  | 0.04    | 0.04   | 0.059   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  | 0.012  | 0.013   | 0.013  | 0.02    |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 110    | 130    | 170     | 87     | 250     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 53.6   | 65.8   | 85      | 43.6   | 125     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 53.6   | 65.8   | 85      | 43.6   | 125     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0036 | 0.0044 | 0.0057  | 0.0029 | 0.0083  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 380    | 400    | 420     | 590    | 600     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.038  | 0.04   | 0.042   | 0.059  | 0.06    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 56     | 37     | < 20    | 200    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.004  | < 0.002 | 0.02   | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 3      | 3.5    | 4       | 9.4    | 6.1     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130    | 130    | 140     | 200    | 200     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013  | 0.013  | 0.014   | 0.02   | 0.02    |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.7    | 0.4    | 0.6     | 1.6    | 0.5     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |                   |                            |                              |  |
|-----------------------------------------|-------------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 699720            |                            |                              |  |
| Sample Reference                        | C1593/44/AA4 - L2 |                            |                              |  |
| Sample Number                           | None Supplied     |                            |                              |  |
| Water Matrix                            | N/A               |                            |                              |  |
| Depth (m)                               | None Supplied     |                            |                              |  |
| Date Sampled                            | 29/09/2025        |                            |                              |  |
| Time Taken                              | None Supplied     |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.6   |
| Moisture Content              | %  | 0.01 | NONE | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 480    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.048  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.016  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 190    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 96     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 96     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0064 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 510    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.051  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 37     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.004  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 7.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 170    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.017  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-052669**

**Project / Site name: Dove Valley Park**

\* 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 *   |
|-------------------|------------------|---------------|---------------|------------------------|
| 699710            | 1583/32/AB10 - L | None Supplied | None Supplied | Brown clay             |
| 699711            | 1584/33/AA5 - L  | None Supplied | None Supplied | Brown clay             |
| 699712            | 1585/35/AA8 - L  | None Supplied | None Supplied | Brown clay             |
| 699713            | 1586/37/L12 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699714            | 1587/38/AA8 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699715            | 1588/39/AB6 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699716            | 1589/40/AB4 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699717            | 1590/41/L10 - L  | None Supplied | None Supplied | Brown clay             |
| 699718            | 1591/42/AB8 - L  | None Supplied | None Supplied | Brown clay             |
| 699719            | 1592/43/AA6 - L  | None Supplied | None Supplied | Brown clay             |
| 699720            | 1593/44/AA4 - L  | None Supplied | None Supplied | Brown clay             |

**Analytical Report Number : 25-052669**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-052669**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 30/09/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 30/09/2025 |
| <b>Your order number:</b>   | SC1075           | <b>Analysis completed by:</b>                          | 10/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 10/10/2025 |
| <b>Samples Analysed:</b>    | 11 soil samples  |                                                        |            |

**Signed:**

Dominika Liana  
Junior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |       |                            |                              |                    |                   |                   |                   |                   |
|-----------------------------------------|-------|----------------------------|------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Lab Sample Number                       |       |                            |                              | 699710             | 699711            | 699712            | 699713            | 699714            |
| Sample Reference                        |       |                            |                              | C1583/32/AB10 - L5 | C1584/33/AA5 - L1 | C1585/35/AA8 - L1 | C1586/37/L12 - L2 | C1587/38/AA8 - L2 |
| Sample Number                           |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Water Matrix                            |       |                            |                              | N/A                | N/A               | N/A               | N/A               | N/A               |
| Depth (m)                               |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Date Sampled                            |       |                            |                              | 26/09/2025         | 26/09/2025        | 26/09/2025        | 29/09/2025        | 29/09/2025        |
| Time Taken                              |       |                            |                              | None Supplied      | None Supplied     | None Supplied     | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                    |                   |                   |                   |                   |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 15.5  | 2.6   | 3.4   | 15.8  | 32    |
| Moisture Content              | %  | 0.01 | NONE | 14    | 16    | 12    | 16    | 12    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |         |        |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|---------|--------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.8    | 7       | 6.9    | 7.5     | 7.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 370    | 250     | 310    | 210     | 230     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.037  | 0.025   | 0.031  | 0.021   | 0.023   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012  | 0.008   | 0.01   | 0.007   | 0.008   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180    | 130     | 140    | 76      | 85      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 91.1   | 65      | 71.7   | 38.2    | 42.5    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 91.1   | 65      | 71.7   | 38.2    | 42.5    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0061 | 0.0043  | 0.0048 | 0.0025  | 0.0028  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 400    | 270     | 360    | 190     | 250     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.04   | 0.027   | 0.036  | 0.019   | 0.025   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 27     | < 20    | 53     | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003  | < 0.002 | 0.005  | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.1    | 1.2     | 1.5    | 2.2     | 2.6     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130    | 91      | 120    | 62      | 84      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013  | 0.009   | 0.012  | 0.006   | 0.008   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.1    | 0.4     | 0.5    | 0.7     | 0.4     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |                   |                            |                              |                   |                   |
|-----------------------------------------|-------------------|----------------------------|------------------------------|-------------------|-------------------|
| Lab Sample Number                       | 699715            | 699716                     | 699717                       | 699718            | 699719            |
| Sample Reference                        | C1588/39/AB6 - L7 | C1589/40/AB4 - L1          | C1590/41/L10 - L3            | C1591/42/AB8 - L8 | C1592/43/AA6 - L3 |
| Sample Number                           | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Water Matrix                            | N/A               | N/A                        | N/A                          | N/A               | N/A               |
| Depth (m)                               | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Date Sampled                            | 29/09/2025        | 29/09/2025                 | 29/09/2025                   | 29/09/2025        | 29/09/2025        |
| Time Taken                              | None Supplied     | None Supplied              | None Supplied                | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |                   |                   |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.1   | 12.1  | < 0.1 | 0.9   | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 16    | 10    | 20    | 19    | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |        |         |        |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|--------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 6.5    | 6.9     | 7.7    | 6.6     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 330    | 360    | 400     | 400    | 590     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.033  | 0.036  | 0.04    | 0.04   | 0.059   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  | 0.012  | 0.013   | 0.013  | 0.02    |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 110    | 130    | 170     | 87     | 250     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 53.6   | 65.8   | 85      | 43.6   | 125     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 53.6   | 65.8   | 85      | 43.6   | 125     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0036 | 0.0044 | 0.0057  | 0.0029 | 0.0083  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 380    | 400    | 420     | 590    | 600     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.038  | 0.04   | 0.042   | 0.059  | 0.06    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 56     | 37     | < 20    | 200    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.004  | < 0.002 | 0.02   | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 3      | 3.5    | 4       | 9.4    | 6.1     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130    | 130    | 140     | 200    | 200     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013  | 0.013  | 0.014   | 0.02   | 0.02    |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.7    | 0.4    | 0.6     | 1.6    | 0.5     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052669  
Project / Site name: Dove Valley Park  
Your Order No: SC1075

|                                         |                   |                            |                              |  |
|-----------------------------------------|-------------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 699720            |                            |                              |  |
| Sample Reference                        | C1593/44/AA4 - L2 |                            |                              |  |
| Sample Number                           | None Supplied     |                            |                              |  |
| Water Matrix                            | N/A               |                            |                              |  |
| Depth (m)                               | None Supplied     |                            |                              |  |
| Date Sampled                            | 29/09/2025        |                            |                              |  |
| Time Taken                              | None Supplied     |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.6   |
| Moisture Content              | %  | 0.01 | NONE | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 480    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.048  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.016  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 190    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 96     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 96     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0064 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 510    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.051  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 37     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.004  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 7.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 170    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.017  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-052669**

**Project / Site name: Dove Valley Park**

\* 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 *   |
|-------------------|------------------|---------------|---------------|------------------------|
| 699710            | 1583/32/AB10 - L | None Supplied | None Supplied | Brown clay             |
| 699711            | 1584/33/AA5 - L  | None Supplied | None Supplied | Brown clay             |
| 699712            | 1585/35/AA8 - L  | None Supplied | None Supplied | Brown clay             |
| 699713            | 1586/37/L12 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699714            | 1587/38/AA8 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699715            | 1588/39/AB6 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699716            | 1589/40/AB4 - L  | None Supplied | None Supplied | Brown clay with gravel |
| 699717            | 1590/41/L10 - L  | None Supplied | None Supplied | Brown clay             |
| 699718            | 1591/42/AB8 - L  | None Supplied | None Supplied | Brown clay             |
| 699719            | 1592/43/AA6 - L  | None Supplied | None Supplied | Brown clay             |
| 699720            | 1593/44/AA4 - L  | None Supplied | None Supplied | Brown clay             |

**Analytical Report Number : 25-052669**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |             |
|----------------------------------------------------------------------------|----------------------|--------------------|-------------|
| Laboratory Report                                                          | ETS/23017-23026      | Contract Sample No | C1583/46-55 |
| Report Date                                                                | 15 October 2025      | ETS Contract No    | C1583/46-55 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |             |
|                                                                            | Source               | Ex-Site            |             |
|                                                                            | Supplier             | Ex-Site            |             |
|                                                                            | Date Sampled         | 30/09/2025         |             |
|                                                                            | Date Received        | 30/09/2025         |             |
|                                                                            | Date Completed       | 15/10/2025         |             |
|                                                                            | Sample Location      | See Below          |             |
|                                                                            | Client Reference     | C1583/46-55        |             |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-052906

| ETS Number | Sample Number | Location     | Material                          | Testing                        |
|------------|---------------|--------------|-----------------------------------|--------------------------------|
| ETS/23135  | 46            | AA11 Layer 4 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/23136  | 47            | AA6 Layer 4  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/23137  | 58            | AB4 Layer 3  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/23024  | 53            | Y9 6 Passes  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/23025  | 54            | Y9 8 Passes  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |
| ETS/23026  | 55            | Y9 10 Passes | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH & Chloride ION |

Authorised Signatory

T. McDonald



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-052906**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 01/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/10/2025 |
| <b>Your order number:</b>   | SC1078           | <b>Analysis completed by:</b>                          | 15/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 15/10/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052906  
Project / Site name: Dove Valley Park  
Your Order No: SC1078

| Lab Sample Number                    | 700868             | 700869                  | 700870                    | 700871                 | 700872                 |
|--------------------------------------|--------------------|-------------------------|---------------------------|------------------------|------------------------|
| Sample Reference                     | C1583/46/AA11 - L4 | C1583/47/AA6 - L4       | C1583/48/AB4 - L3         | C1583/53/6 Passes - Y9 | C1583/54/8 Passes - Y9 |
| Sample Number                        | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Water Matrix                         | N/A                | N/A                     | N/A                       | N/A                    | N/A                    |
| Depth (m)                            | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Date Sampled                         | 30/09/2025         | 30/09/2025              | 30/09/2025                | 30/09/2025             | 30/09/2025             |
| Time Taken                           | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Analytical Parameter (Soil Analysis) | Units              | Test Limit of detection | Test Accreditation Status |                        |                        |

| Stone Content                 | %  | 0.1  | NONE | 4.1  | < 0.1 | 51.8 | 1.6 | 18.2 |
|-------------------------------|----|------|------|------|-------|------|-----|------|
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 15.3 | 2.7   | 60.4 | 2   | 20.1 |
| Moisture Content              | %  | 0.01 | NONE | 14   | 18    | 6.4  | 9   | 7.5  |
| Total mass of sample received | kg | 0.1  | NONE | 0.5  | 0.5   | 0.5  | 0.5 | 0.5  |

#### General Inorganics

| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.1   | 7.3   | 7      | 7.1    | 7.1    |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|--------|--------|--------|
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 450   | 450   | 380    | 320    | 500    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.045 | 0.045 | 0.038  | 0.032  | 0.05   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.015 | 0.015 | 0.013  | 0.011  | 0.017  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180   | 240   | 86     | 110    | 71     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 89.8  | 120   | 42.9   | 55.8   | 35.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 89.8  | 120   | 42.9   | 55.8   | 35.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.006 | 0.008 | 0.0029 | 0.0037 | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 480   | 520   | 590    | 530    | 980    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.048 | 0.052 | 0.059  | 0.053  | 0.098  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 28    | 69    | 210    | 210    | 480    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003 | 0.007 | 0.021  | 0.021  | 0.048  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.3   | 5.7   | 2.1    | 1.2    | 1.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160   | 170   | 200    | 180    | 330    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016 | 0.017 | 0.02   | 0.018  | 0.033  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5   | 0.4   | 1.5    | 1.2    | 3.2    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052906

Project / Site name: Dove Valley Park

Your Order No: SC1078

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 700873        |                            |                              |  |
| Sample Reference                        | C1583/55/10   |                            |                              |  |
| Sample Number                           | Passes - Y9   |                            |                              |  |
| Water Matrix                            | None Supplied |                            |                              |  |
| Depth (m)                               | N/A           |                            |                              |  |
| Date Sampled                            | None Supplied |                            |                              |  |
| Time Taken                              | 30/09/2025    |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 3.8   |
| Moisture Content              | %  | 0.01 | NONE | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 400    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.04   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 170    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 83.6   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 83.6   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0056 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 910    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.091  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 510    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.051  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.9    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 300    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.03   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1      |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-052906**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 700868            | 1583/46/AA11 - L | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 700869            | 1583/47/AA6 - L  | None Supplied | None Supplied | Brown clay with gravel                         |
| 700870            | 1583/48/AB4 - L  | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 700871            | 83/53/6 Passes   | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 700872            | 83/54/8 Passes   | None Supplied | None Supplied | Brown loam and sand with vegetation and stones |
| 700873            | 83/55/10 Passes  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |

Analytical Report Number : 25-052906

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-052906**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 01/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/10/2025 |
| <b>Your order number:</b>   | SC1078           | <b>Analysis completed by:</b>                          | 15/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 15/10/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-052906  
Project / Site name: Dove Valley Park  
Your Order No: SC1078

| Lab Sample Number                    | 700868             | 700869                  | 700870                    | 700871                 | 700872                 |
|--------------------------------------|--------------------|-------------------------|---------------------------|------------------------|------------------------|
| Sample Reference                     | C1583/46/AA11 - L4 | C1583/47/AA6 - L4       | C1583/48/AB4 - L3         | C1583/53/6 Passes - Y9 | C1583/54/8 Passes - Y9 |
| Sample Number                        | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Water Matrix                         | N/A                | N/A                     | N/A                       | N/A                    | N/A                    |
| Depth (m)                            | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Date Sampled                         | 30/09/2025         | 30/09/2025              | 30/09/2025                | 30/09/2025             | 30/09/2025             |
| Time Taken                           | None Supplied      | None Supplied           | None Supplied             | None Supplied          | None Supplied          |
| Analytical Parameter (Soil Analysis) | Units              | Test Limit of detection | Test Accreditation Status |                        |                        |

|                               |    |      |      |      |       |      |     |      |
|-------------------------------|----|------|------|------|-------|------|-----|------|
| Stone Content                 | %  | 0.1  | NONE | 4.1  | < 0.1 | 51.8 | 1.6 | 18.2 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 15.3 | 2.7   | 60.4 | 2   | 20.1 |
| Moisture Content              | %  | 0.01 | NONE | 14   | 18    | 6.4  | 9   | 7.5  |
| Total mass of sample received | kg | 0.1  | NONE | 0.5  | 0.5   | 0.5  | 0.5 | 0.5  |

#### General Inorganics

|                                                                         |          |        |        |       |       |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.1   | 7.3   | 7      | 7.1    | 7.1    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 450   | 450   | 380    | 320    | 500    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.045 | 0.045 | 0.038  | 0.032  | 0.05   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.015 | 0.015 | 0.013  | 0.011  | 0.017  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180   | 240   | 86     | 110    | 71     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 89.8  | 120   | 42.9   | 55.8   | 35.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 89.8  | 120   | 42.9   | 55.8   | 35.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.006 | 0.008 | 0.0029 | 0.0037 | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 480   | 520   | 590    | 530    | 980    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.048 | 0.052 | 0.059  | 0.053  | 0.098  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 28    | 69    | 210    | 210    | 480    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003 | 0.007 | 0.021  | 0.021  | 0.048  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.3   | 5.7   | 2.1    | 1.2    | 1.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160   | 170   | 200    | 180    | 330    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016 | 0.017 | 0.02   | 0.018  | 0.033  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5   | 0.4   | 1.5    | 1.2    | 3.2    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-052906

Project / Site name: Dove Valley Park

Your Order No: SC1078

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 700873        |                            |                              |  |
| Sample Reference                        | C1583/55/10   |                            |                              |  |
| Sample Number                           | Passes - Y9   |                            |                              |  |
| Water Matrix                            | None Supplied |                            |                              |  |
| Depth (m)                               | N/A           |                            |                              |  |
| Date Sampled                            | None Supplied |                            |                              |  |
| Time Taken                              | 30/09/2025    |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 3.8   |
| Moisture Content              | %  | 0.01 | NONE | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 400    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.04   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 170    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 83.6   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 83.6   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0056 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 910    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.091  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 510    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.051  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.9    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 300    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.03   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1      |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-052906**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 700868            | 1583/46/AA11 - L | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 700869            | 1583/47/AA6 - L  | None Supplied | None Supplied | Brown clay with gravel                         |
| 700870            | 1583/48/AB4 - L  | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 700871            | 83/53/6 Passes   | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 700872            | 83/54/8 Passes   | None Supplied | None Supplied | Brown loam and sand with vegetation and stones |
| 700873            | 83/55/10 Passes  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |

Analytical Report Number : 25-052906

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |             |
|----------------------------------------------------------------------------|----------------------|--------------------|-------------|
| Laboratory Report                                                          | ETS/23135-23216      | Contract Sample No | C1583/57-91 |
| Report Date                                                                | 15 October 2025      | ETS Contract No    | C1583/57-91 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |             |
|                                                                            | Source               | Ex-Site            |             |
|                                                                            | Supplier             | Ex-Site            |             |
|                                                                            | Date Sampled         | 01/10/2025         |             |
|                                                                            | Date Received        | 01/10/2025         |             |
|                                                                            | Date Completed       | 14/10/2025         |             |
| Dove Valley Park                                                           | Sample Location      | See Below          |             |
|                                                                            | Client Reference     | C1583/57-91        |             |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-052669

| ETS Number | Sample Number | Location                | Material                                  | Testing                    |
|------------|---------------|-------------------------|-------------------------------------------|----------------------------|
| ETS/23135  | 57            | AA5 Layer 5             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23136  | 58            | AA9 Layer 7             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23137  | 59            | AA4 Layer 4             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23138  | 60            | Z9 Layer 1              | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23139  | 61            | Z11 Layer 5             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23144  | 66            | Z8 Layer 2              | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23145  | 68            | AB7 Layer 10            | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23146  | 68            | AB10 Layer 10           | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23147  | 69            | Z9 Layer 3              | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23150  | 72            | Trial Pad Y9 +6 Passes  | Brown Clay W/F-M Gravel (Class 7) +2% OPC | TRL 447, PH & Chloride Ion |
| ETS/23151  | 73            | Trial Pad Y9 +8 Passes  | Brown Clay W/F-M Gravel (Class 7) +2% OPC | TRL 447, PH & Chloride Ion |
| ETS/23152  | 74            | Trial Pad Y9 +10 Passes | Brown Clay W/F-M Gravel (Class 7) +2% OPC | TRL 447, PH & Chloride Ion |
| ETS/23203  | 78            | AB4 Layer 5             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23204  | 79            | Z7 Layer 1              | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23205  | 80            | AA8 Layer 8             | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23206  | 81            | AA9 Layer 9             | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23207  | 82            | B10 Layer 11            | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23208  | 83            | Z5 Layer 1              | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23209  | 84            | AA6 Layer 9             | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23210  | 85            | AB7 Layer 12            | Brown Clay W/F-M Gravel                   | TRL 447, PH & Chloride Ion |
| ETS/23211  | 86            | AA9 Layer 10            | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23212  | 87            | AB10 Layer 12           | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23213  | 88            | Y9 Layer 2              | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23214  | 89            | AB5 Layer 9             | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23215  | 90            | AB6 Layer 13            | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |
| ETS/23216  | 91            | AA7 Layer 10            | Brown Clay W/F-M Gravel (Class 7)         | TRL 447, PH & Chloride Ion |

Authorised Signatory

T. McDonald

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404

f: 01923 237404

e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-053707**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 03/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 03/10/2025 |
| <b>Your order number:</b>   | SC1092           | <b>Analysis completed by:</b>                          | 14/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 14/10/2025 |
| <b>Samples Analysed:</b>    | 26 soil samples  |                                                        |            |



**Signed:**

Joanna Biolik  
Senior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-053707**  
**Project / Site name: Dove Valley Park**  
**Your Order No: SC1092**

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705204        | 705205                     | 705206                       | 705207        | 705208        |
| Sample Reference                        | C1583/57      | C1583/58                   | C1583/59                     | C1583/60      | C1583/61      |
| Sample Number                           | AA5-L5        | AA9-L7                     | AA4-L4                       | Z9-L1         | Z11-L5        |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 01/10/2025    | 01/10/2025                 | 01/10/2025                   | 01/10/2025    | 01/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 1.2   | 2     | 0.2   | 7.7   |
| Moisture Content              | %  | 0.01 | NONE | 15    | 13    | 15    | 14    | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   | 0.8   |

#### General Inorganics

|                                                                         |          |        |        |       |        |         |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|-------|--------|---------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3   | 7.2    | 7.2     | 6.6     | 7.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 320   | 380    | 410     | 570     | 390     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.032 | 0.038  | 0.041   | 0.057   | 0.039   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011 | 0.013  | 0.014   | 0.019   | 0.013   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150   | 130    | 140     | 190     | 130     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.3  | 67     | 70.6    | 94.5    | 67.3    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.3  | 67     | 70.6    | 94.5    | 67.3    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.005 | 0.0045 | 0.0047  | 0.0063  | 0.0045  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 440   | 410    | 380     | 570     | 370     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.044 | 0.041  | 0.038   | 0.057   | 0.037   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 110   | 24     | < 20    | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.011 | 0.002  | < 0.002 | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.6   | 1.5    | 1.4     | 0.7     | 0.8     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150   | 140    | 130     | 190     | 120     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015 | 0.014  | 0.013   | 0.019   | 0.012   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   | 0.4    | 0.3     | 0.4     | 0.3     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                         |                           |               |                          |
|-----------------------------------------|---------------|-------------------------|---------------------------|---------------|--------------------------|
| Lab Sample Number                       | 705209        | 705210                  | 705211                    | 705212        | 705213                   |
| Sample Reference                        | C1583/66      | C1583/67                | C1583/68                  | C1583/69      | C1583/72                 |
| Sample Number                           | Z8-L2         | AB7-L10                 | AB10-L10                  | Z9-L3         | Trial Pad, Y9 - 6 Passes |
| Water Matrix                            | N/A           | N/A                     | N/A                       | N/A           | N/A                      |
| Depth (m)                               | None Supplied | None Supplied           | None Supplied             | None Supplied | None Supplied            |
| Date Sampled                            | 01/10/2025    | 01/10/2025              | 01/10/2025                | 01/10/2025    | 01/10/2025               |
| Time Taken                              | None Supplied | None Supplied           | None Supplied             | None Supplied | None Supplied            |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of detection | Test Accreditation Status |               |                          |

|                               |    |      |      |       |       |       |      |      |
|-------------------------------|----|------|------|-------|-------|-------|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | 22.8 | 14.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.7   | 0.6   | 2.2   | 4.4  | 18.5 |
| Moisture Content              | %  | 0.01 | NONE | 12    | 16    | 8.9   | 7.7  | 5.5  |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   | 0.9   | 0.7   | 0.7  | 0.7  |

#### General Inorganics

|                                                                         |          |        |        |       |        |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|--------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3   | 7.4    | 7.2     | 7.3    | 7.6    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 300   | 400    | 480     | 360    | 330    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.03  | 0.04   | 0.048   | 0.036  | 0.033  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01  | 0.013  | 0.016   | 0.012  | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 120   | 130    | 160     | 92     | 84     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 60    | 66.5   | 78.4    | 45.8   | 42     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 60    | 66.5   | 78.4    | 45.8   | 42     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.004 | 0.0044 | 0.0052  | 0.0031 | 0.0028 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 390   | 430    | 490     | 500    | 520    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.039 | 0.043  | 0.049   | 0.05   | 0.052  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 88    | 33     | < 20    | 140    | 190    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.009 | 0.003  | < 0.002 | 0.014  | 0.019  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 0.8   | 1.3    | 1.4     | 1.6    | 2.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130   | 140    | 160     | 170    | 170    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013 | 0.014  | 0.016   | 0.017  | 0.017  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   | 0.3    | 0.4     | 1.5    | 1.6    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1092

|                                         |                          |                           |                           |               |               |
|-----------------------------------------|--------------------------|---------------------------|---------------------------|---------------|---------------|
| Lab Sample Number                       | 705214                   | 705215                    | 705216                    | 705217        | 705218        |
| Sample Reference                        | C1583/73                 | C1583/74                  | C1583/78                  | C1583/79      | C1583/80      |
| Sample Number                           | Trial Pad, Y9 - 8 Passes | Trial Pad, Y9 - 10 Passes | AB4 - L5                  | Z7- L1        | AA8 - L8      |
| Water Matrix                            | N/A                      | N/A                       | N/A                       | N/A           | N/A           |
| Depth (m)                               | None Supplied            | None Supplied             | None Supplied             | None Supplied | None Supplied |
| Date Sampled                            | 01/10/2025               | 01/10/2025                | 02/10/2025                | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied            | None Supplied             | None Supplied             | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units                    | Test Limit of detection   | Test Accreditation Status |               |               |

|                               |    |      |      |      |      |       |       |       |
|-------------------------------|----|------|------|------|------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 12.7 | 39.2 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 5.6  | 39.1 | 6.5   | 13.5  | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 6.8  | 3.7  | 11    | 15    | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.7  | 0.7  | 0.8   | 0.9   | 0.7   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |       |       |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|-------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 7.6    | 6.9    | 5.4   | 6     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 330    | 270    | 400    | 650   | 410   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.033  | 0.027  | 0.04   | 0.065 | 0.041 |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  | 0.009  | 0.013  | 0.022 | 0.014 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 79     | 77     | 210    | 180   | 180   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 39.6   | 38.5   | 106    | 90.5  | 90    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 39.6   | 38.5   | 106    | 90.5  | 90    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0026 | 0.0026 | 0.0071 | 0.006 | 0.006 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 490    | 420    | 530    | 700   | 450   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.049  | 0.042  | 0.053  | 0.07  | 0.045 |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 160    | 160    | 130    | 45    | 42    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.016  | 0.016  | 0.013  | 0.005 | 0.004 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.7    | 2.6    | 3.6    | 5.6   | 4.8   |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160    | 140    | 180    | 230   | 150   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016  | 0.014  | 0.018  | 0.023 | 0.015 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.5    | 1      | 0.4    | 0.1   | 0.2   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705219        | 705220                     | 705221                       | 705222        | 705223        |
| Sample Reference                        | C1583/81      | C1583/82                   | C1583/83                     | C1583/84      | C1583/85      |
| Sample Number                           | AA9 - L9      | B10 - L11                  | Z5 - L1                      | AA6 - L9      | AB7 - L12     |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 02/10/2025    | 02/10/2025                 | 02/10/2025                   | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.3   | 6.8   | < 0.1 | 0.4   | 1.6   |
| Moisture Content              | %  | 0.01 | NONE | 9.7   | 8.1   | 10    | 13    | 8.5   |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   | 0.7   | 0.7   | 0.7   | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |        |        |       |       |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|-------|-------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    | 6.2    | 6.7   | 6.9   | 6.7    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 400    | 470    | 490   | 670   | 320    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.04   | 0.047  | 0.049 | 0.067 | 0.032  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.016  | 0.016 | 0.022 | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180    | 170    | 210   | 240   | 100    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 91.5   | 85.6   | 105   | 120   | 52.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 91.5   | 85.6   | 105   | 120   | 52.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0061 | 0.0057 | 0.007 | 0.008 | 0.0035 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 470    | 510    | 580   | 830   | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.047  | 0.051  | 0.058 | 0.083 | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 66     | 39     | 93    | 160   | 38     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.007  | 0.004  | 0.009 | 0.016 | 0.004  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.7    | 4.2    | 4.3   | 3.7   | 3.3    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160    | 170    | 190   | 280   | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016  | 0.017  | 0.019 | 0.028 | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2    | 0.3    | 0.5   | 0.2   | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705224        | 705225                     | 705226                       | 705227        | 705228        |
| Sample Reference                        | C1583/86      | C1583/87                   | C1583/88                     | C1583/89      | C1583/90      |
| Sample Number                           | AA9 - L10     | AB10 - L12                 | Y9 - L2                      | AB5 - L9      | AB6 - L13     |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 02/10/2025    | 02/10/2025                 | 02/10/2025                   | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |      |
|-------------------------------|----|------|------|-------|-------|-------|-------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 25.6 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 19.8  | 1.8   | 0.9   | 9.3   | 22.8 |
| Moisture Content              | %  | 0.01 | NONE | 6.8   | 8.5   | 9.1   | 10    | 6.9  |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.6   | 0.7   | 0.6   | 0.7  |

#### General Inorganics

|                                                                         |          |        |        |        |        |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.6    | 6.8    | 6.7     | 6.7    | 6.8    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 280    | 260    | 270     | 290    | 260    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.028  | 0.026  | 0.027   | 0.029  | 0.026  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  | 0.009  | 0.009   | 0.01   | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 120    | 130    | 110     | 110    | 94     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 61.2   | 64.5   | 54.6    | 57.1   | 47     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 61.2   | 64.5   | 54.6    | 57.1   | 47     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0041 | 0.0043 | 0.0036  | 0.0038 | 0.0031 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 330    | 360    | 270     | 340    | 280    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.033  | 0.036  | 0.027   | 0.034  | 0.028  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 51     | 96     | < 20    | 45     | 21     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.005  | 0.01   | < 0.002 | 0.004  | 0.002  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 7.7    | 3.6    | 6.1     | 5.6    | 4      |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 110    | 120    | 89      | 110    | 95     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.011  | 0.012  | 0.009   | 0.011  | 0.009  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3    | 0.2    | 0.2     | 0.3    | 0.1    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1092

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 705229        |                            |                              |  |
| Sample Reference                        | C1583/91      |                            |                              |  |
| Sample Number                           | AA7 - L10     |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 02/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 3.8   |
| Moisture Content              | %  | 0.01 | NONE | 7.8   |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.1    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 270    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.027  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 110    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 53.1   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 53.1   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0035 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 300    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.03   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 32     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.3    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 100    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.01   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-053707**

**Project / Site name: Dove Valley Park**

\* 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 *            |
|-------------------|------------------|---------------------|---------------|---------------------------------|
| 705204            | C1583/57         | AA5-L5              | None Supplied | Brown clay                      |
| 705205            | C1583/58         | AA9-L7              | None Supplied | Brown clay                      |
| 705206            | C1583/59         | AA4-L4              | None Supplied | Brown clay                      |
| 705207            | C1583/60         | Z9-L1               | None Supplied | Brown clay with gravel          |
| 705208            | C1583/61         | Z11-L5              | None Supplied | Brown clay with gravel          |
| 705209            | C1583/66         | Z8-L2               | None Supplied | Brown clay                      |
| 705210            | C1583/67         | AB7-L10             | None Supplied | Brown clay                      |
| 705211            | C1583/68         | AB10-L10            | None Supplied | Brown clay                      |
| 705212            | C1583/69         | Z9-L3               | None Supplied | Brown loam and clay with stones |
| 705213            | C1583/72         | al Pad, Y9 - 6 Pas  | None Supplied | Brown loam and clay with stones |
| 705214            | C1583/73         | al Pad, Y9 - 8 Pas  | None Supplied | Brown loam and clay with stones |
| 705215            | C1583/74         | al Pad, Y9 - 10 Pas | None Supplied | Brown loam and clay with stones |
| 705216            | C1583/78         | AB4 - L5            | None Supplied | Brown clay                      |
| 705217            | C1583/79         | Z7 - L1             | None Supplied | Brown clay and sand with gravel |
| 705218            | C1583/80         | AA8 - L8            | None Supplied | Brown clay and sand             |
| 705219            | C1583/81         | AA9 - L9            | None Supplied | Brown clay                      |
| 705220            | C1583/82         | B10 - L11           | None Supplied | Brown clay                      |
| 705221            | C1583/83         | Z5 - L1             | None Supplied | Brown clay                      |
| 705222            | C1583/84         | AA6 - L9            | None Supplied | Brown clay                      |
| 705223            | C1583/85         | AB7 - L12           | None Supplied | Brown clay                      |
| 705224            | C1583/86         | AA9 - L10           | None Supplied | Brown clay and sand with gravel |
| 705225            | C1583/87         | AB10 - L12          | None Supplied | Brown clay and sand             |
| 705226            | C1583/88         | Y9 - L2             | None Supplied | Brown clay and sand             |
| 705227            | C1583/89         | AB5 - L9            | None Supplied | Brown clay and sand             |
| 705228            | C1583/90         | AB6 - L13           | None Supplied | Brown clay and sand with stones |
| 705229            | C1583/91         | AA7 - L10           | None Supplied | Brown clay and sand             |

**Analytical Report Number : 25-053707**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

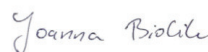
i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-053707**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 03/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 03/10/2025 |
| <b>Your order number:</b>   | SC1092           | <b>Analysis completed by:</b>                          | 14/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 14/10/2025 |
| <b>Samples Analysed:</b>    | 26 soil samples  |                                                        |            |



**Signed:**

Joanna Biolik  
Senior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705204        | 705205                     | 705206                       | 705207        | 705208        |
| Sample Reference                        | C1583/57      | C1583/58                   | C1583/59                     | C1583/60      | C1583/61      |
| Sample Number                           | AA5-L5        | AA9-L7                     | AA4-L4                       | Z9-L1         | Z11-L5        |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 01/10/2025    | 01/10/2025                 | 01/10/2025                   | 01/10/2025    | 01/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 1.2   | 2     | 0.2   | 7.7   |
| Moisture Content              | %  | 0.01 | NONE | 15    | 13    | 15    | 14    | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   | 0.8   |

#### General Inorganics

|                                                                         |          |        |        |       |        |         |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|-------|--------|---------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3   | 7.2    | 7.2     | 6.6     | 7.1     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 320   | 380    | 410     | 570     | 390     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.032 | 0.038  | 0.041   | 0.057   | 0.039   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011 | 0.013  | 0.014   | 0.019   | 0.013   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150   | 130    | 140     | 190     | 130     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.3  | 67     | 70.6    | 94.5    | 67.3    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.3  | 67     | 70.6    | 94.5    | 67.3    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.005 | 0.0045 | 0.0047  | 0.0063  | 0.0045  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 440   | 410    | 380     | 570     | 370     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.044 | 0.041  | 0.038   | 0.057   | 0.037   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 110   | 24     | < 20    | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.011 | 0.002  | < 0.002 | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.6   | 1.5    | 1.4     | 0.7     | 0.8     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150   | 140    | 130     | 190     | 120     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015 | 0.014  | 0.013   | 0.019   | 0.012   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   | 0.4    | 0.3     | 0.4     | 0.3     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                         |                           |               |                          |
|-----------------------------------------|---------------|-------------------------|---------------------------|---------------|--------------------------|
| Lab Sample Number                       | 705209        | 705210                  | 705211                    | 705212        | 705213                   |
| Sample Reference                        | C1583/66      | C1583/67                | C1583/68                  | C1583/69      | C1583/72                 |
| Sample Number                           | Z8-L2         | AB7-L10                 | AB10-L10                  | Z9-L3         | Trial Pad, Y9 - 6 Passes |
| Water Matrix                            | N/A           | N/A                     | N/A                       | N/A           | N/A                      |
| Depth (m)                               | None Supplied | None Supplied           | None Supplied             | None Supplied | None Supplied            |
| Date Sampled                            | 01/10/2025    | 01/10/2025              | 01/10/2025                | 01/10/2025    | 01/10/2025               |
| Time Taken                              | None Supplied | None Supplied           | None Supplied             | None Supplied | None Supplied            |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of detection | Test Accreditation Status |               |                          |

|                               |    |      |      |       |       |       |      |      |
|-------------------------------|----|------|------|-------|-------|-------|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | 22.8 | 14.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.7   | 0.6   | 2.2   | 4.4  | 18.5 |
| Moisture Content              | %  | 0.01 | NONE | 12    | 16    | 8.9   | 7.7  | 5.5  |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   | 0.9   | 0.7   | 0.7  | 0.7  |

#### General Inorganics

|                                                                         |          |        |        |       |        |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|--------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3   | 7.4    | 7.2     | 7.3    | 7.6    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 300   | 400    | 480     | 360    | 330    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.03  | 0.04   | 0.048   | 0.036  | 0.033  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01  | 0.013  | 0.016   | 0.012  | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 120   | 130    | 160     | 92     | 84     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 60    | 66.5   | 78.4    | 45.8   | 42     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 60    | 66.5   | 78.4    | 45.8   | 42     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.004 | 0.0044 | 0.0052  | 0.0031 | 0.0028 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 390   | 430    | 490     | 500    | 520    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.039 | 0.043  | 0.049   | 0.05   | 0.052  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 88    | 33     | < 20    | 140    | 190    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.009 | 0.003  | < 0.002 | 0.014  | 0.019  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 0.8   | 1.3    | 1.4     | 1.6    | 2.7    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 130   | 140    | 160     | 170    | 170    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.013 | 0.014  | 0.016   | 0.017  | 0.017  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   | 0.3    | 0.4     | 1.5    | 1.6    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number: 25-053707**  
**Project / Site name: Dove Valley Park**  
**Your Order No: SC1092**

|                                         |                          |                           |                           |               |               |
|-----------------------------------------|--------------------------|---------------------------|---------------------------|---------------|---------------|
| Lab Sample Number                       | 705214                   | 705215                    | 705216                    | 705217        | 705218        |
| Sample Reference                        | C1583/73                 | C1583/74                  | C1583/78                  | C1583/79      | C1583/80      |
| Sample Number                           | Trial Pad, Y9 - 8 Passes | Trial Pad, Y9 - 10 Passes | AB4 - L5                  | Z7- L1        | AA8 - L8      |
| Water Matrix                            | N/A                      | N/A                       | N/A                       | N/A           | N/A           |
| Depth (m)                               | None Supplied            | None Supplied             | None Supplied             | None Supplied | None Supplied |
| Date Sampled                            | 01/10/2025               | 01/10/2025                | 02/10/2025                | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied            | None Supplied             | None Supplied             | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units                    | Test Limit of detection   | Test Accreditation Status |               |               |

|                               |    |      |      |      |      |       |       |       |
|-------------------------------|----|------|------|------|------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 12.7 | 39.2 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 5.6  | 39.1 | 6.5   | 13.5  | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 6.8  | 3.7  | 11    | 15    | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.7  | 0.7  | 0.8   | 0.9   | 0.7   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |       |       |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|-------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 7.6    | 6.9    | 5.4   | 6     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 330    | 270    | 400    | 650   | 410   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.033  | 0.027  | 0.04   | 0.065 | 0.041 |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  | 0.009  | 0.013  | 0.022 | 0.014 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 79     | 77     | 210    | 180   | 180   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 39.6   | 38.5   | 106    | 90.5  | 90    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 39.6   | 38.5   | 106    | 90.5  | 90    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0026 | 0.0026 | 0.0071 | 0.006 | 0.006 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 490    | 420    | 530    | 700   | 450   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.049  | 0.042  | 0.053  | 0.07  | 0.045 |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 160    | 160    | 130    | 45    | 42    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.016  | 0.016  | 0.013  | 0.005 | 0.004 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 1.7    | 2.6    | 3.6    | 5.6   | 4.8   |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160    | 140    | 180    | 230   | 150   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016  | 0.014  | 0.018  | 0.023 | 0.015 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.5    | 1      | 0.4    | 0.1   | 0.2   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number: 25-053707**  
**Project / Site name: Dove Valley Park**  
**Your Order No: SC1092**

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705219        | 705220                     | 705221                       | 705222        | 705223        |
| Sample Reference                        | C1583/81      | C1583/82                   | C1583/83                     | C1583/84      | C1583/85      |
| Sample Number                           | AA9 - L9      | B10 - L11                  | Z5 - L1                      | AA6 - L9      | AB7 - L12     |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 02/10/2025    | 02/10/2025                 | 02/10/2025                   | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.3   | 6.8   | < 0.1 | 0.4   | 1.6   |
| Moisture Content              | %  | 0.01 | NONE | 9.7   | 8.1   | 10    | 13    | 8.5   |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   | 0.7   | 0.7   | 0.7   | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |        |        |       |       |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|-------|-------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    | 6.2    | 6.7   | 6.9   | 6.7    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 400    | 470    | 490   | 670   | 320    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.04   | 0.047  | 0.049 | 0.067 | 0.032  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.016  | 0.016 | 0.022 | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 180    | 170    | 210   | 240   | 100    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 91.5   | 85.6   | 105   | 120   | 52.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 91.5   | 85.6   | 105   | 120   | 52.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0061 | 0.0057 | 0.007 | 0.008 | 0.0035 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 470    | 510    | 580   | 830   | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.047  | 0.051  | 0.058 | 0.083 | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 66     | 39     | 93    | 160   | 38     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.007  | 0.004  | 0.009 | 0.016 | 0.004  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2.7    | 4.2    | 4.3   | 3.7   | 3.3    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 160    | 170    | 190   | 280   | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.016  | 0.017  | 0.019 | 0.028 | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2    | 0.3    | 0.5   | 0.2   | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 705224        | 705225                     | 705226                       | 705227        | 705228        |
| Sample Reference                        | C1583/86      | C1583/87                   | C1583/88                     | C1583/89      | C1583/90      |
| Sample Number                           | AA9 - L10     | AB10 - L12                 | Y9 - L2                      | AB5 - L9      | AB6 - L13     |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 02/10/2025    | 02/10/2025                 | 02/10/2025                   | 02/10/2025    | 02/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |      |
|-------------------------------|----|------|------|-------|-------|-------|-------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 25.6 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 19.8  | 1.8   | 0.9   | 9.3   | 22.8 |
| Moisture Content              | %  | 0.01 | NONE | 6.8   | 8.5   | 9.1   | 10    | 6.9  |
| Total mass of sample received | kg | 0.1  | NONE | 0.5   | 0.6   | 0.7   | 0.6   | 0.7  |

#### General Inorganics

|                                                                         |          |        |        |        |        |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.6    | 6.8    | 6.7     | 6.7    | 6.8    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 280    | 260    | 270     | 290    | 260    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.028  | 0.026  | 0.027   | 0.029  | 0.026  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  | 0.009  | 0.009   | 0.01   | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 120    | 130    | 110     | 110    | 94     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 61.2   | 64.5   | 54.6    | 57.1   | 47     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 61.2   | 64.5   | 54.6    | 57.1   | 47     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0041 | 0.0043 | 0.0036  | 0.0038 | 0.0031 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 330    | 360    | 270     | 340    | 280    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.033  | 0.036  | 0.027   | 0.034  | 0.028  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 51     | 96     | < 20    | 45     | 21     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.005  | 0.01   | < 0.002 | 0.004  | 0.002  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 7.7    | 3.6    | 6.1     | 5.6    | 4      |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 110    | 120    | 89      | 110    | 95     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.011  | 0.012  | 0.009   | 0.011  | 0.009  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3    | 0.2    | 0.2     | 0.3    | 0.1    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-053707  
Project / Site name: Dove Valley Park  
Your Order No: SC1092

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 705229        |                            |                              |  |
| Sample Reference                        | C1583/91      |                            |                              |  |
| Sample Number                           | AA7 - L10     |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 02/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 3.8   |
| Moisture Content              | %  | 0.01 | NONE | 7.8   |
| Total mass of sample received | kg | 0.1  | NONE | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.1    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 270    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.027  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 110    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 53.1   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 53.1   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0035 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 300    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.03   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 32     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.3    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 100    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.01   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-053707**

**Project / Site name: Dove Valley Park**

\* 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 *            |
|-------------------|------------------|--------------------|---------------|---------------------------------|
| 705204            | C1583/57         | AA5-L5             | None Supplied | Brown clay                      |
| 705205            | C1583/58         | AA9-L7             | None Supplied | Brown clay                      |
| 705206            | C1583/59         | AA4-L4             | None Supplied | Brown clay                      |
| 705207            | C1583/60         | Z9-L1              | None Supplied | Brown clay with gravel          |
| 705208            | C1583/61         | Z11-L5             | None Supplied | Brown clay with gravel          |
| 705209            | C1583/66         | Z8-L2              | None Supplied | Brown clay                      |
| 705210            | C1583/67         | AB7-L10            | None Supplied | Brown clay                      |
| 705211            | C1583/68         | AB10-L10           | None Supplied | Brown clay                      |
| 705212            | C1583/69         | Z9-L3              | None Supplied | Brown loam and clay with stones |
| 705213            | C1583/72         | al Pad, Y9 - 6 Pas | None Supplied | Brown loam and clay with stones |
| 705214            | C1583/73         | al Pad, Y9 - 8 Pas | None Supplied | Brown loam and clay with stones |
| 705215            | C1583/74         | al Pad, Y9 - 10 Pa | None Supplied | Brown loam and clay with stones |
| 705216            | C1583/78         | AB4 - L5           | None Supplied | Brown clay                      |
| 705217            | C1583/79         | Z7 - L1            | None Supplied | Brown clay and sand with gravel |
| 705218            | C1583/80         | AA8 - L8           | None Supplied | Brown clay and sand             |
| 705219            | C1583/81         | AA9 - L9           | None Supplied | Brown clay                      |
| 705220            | C1583/82         | B10 - L11          | None Supplied | Brown clay                      |
| 705221            | C1583/83         | Z5 - L1            | None Supplied | Brown clay                      |
| 705222            | C1583/84         | AA6 - L9           | None Supplied | Brown clay                      |
| 705223            | C1583/85         | AB7 - L12          | None Supplied | Brown clay                      |
| 705224            | C1583/86         | AA9 - L10          | None Supplied | Brown clay and sand with gravel |
| 705225            | C1583/87         | AB10 - L12         | None Supplied | Brown clay and sand             |
| 705226            | C1583/88         | Y9 - L2            | None Supplied | Brown clay and sand             |
| 705227            | C1583/89         | AB5 - L9           | None Supplied | Brown clay and sand             |
| 705228            | C1583/90         | AB6 - L13          | None Supplied | Brown clay and sand with stones |
| 705229            | C1583/91         | AA7 - L10          | None Supplied | Brown clay and sand             |

**Analytical Report Number : 25-053707**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |              |
|----------------------------------------------------------------------------|----------------------|--------------------|--------------|
| Laboratory Report                                                          | ETS/23322-23326      | Contract Sample No | C1583/96-100 |
| Report Date                                                                | 21 October 2025      | ETS Contract No    | C1583/96-100 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |              |
| Dove Valley Park                                                           | Source               | Ex-Site            |              |
|                                                                            | Supplier             | Ex-Site            |              |
|                                                                            | Date Sampled         | 07/10/2025         |              |
|                                                                            | Date Received        | 07/10/2025         |              |
|                                                                            | Date Completed       | 20/10/2025         |              |
|                                                                            | Sample Location      | See Below          |              |
|                                                                            | Client Reference     | C1583/96-100       |              |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Duncroft  
Doncaster  
DN7 4JJ

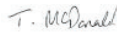
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-054484

| ETS Number | Sample Number | Location            | Material                                    | Testing                       |
|------------|---------------|---------------------|---------------------------------------------|-------------------------------|
| ETS/23135  | 96            | AB4 Layer 7 Re-Test | Brown Clay W/F-M Gravel + 2% OPC (Class 7)  | TRL 447, OM, PH, Chloride ION |
| ETS/23136  | 97            | AA8 Layer 9 Re-Test | Brown Clay W/F-M Gravel + 2% OPC (Class 7)  | TRL 447, OM, PH, Chloride ION |
| ETS/23137  | 99            | Z6 Layer 2 Re-Test  | Brown Clay W/F-M Gravel + 2% Lime (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23138  | 100           | Y9 Layer 2 Re-Test  | Brown Clay W/F-M Gravel + 2% Lime (Class 7) | TRL 447, OM, PH, Chloride ION |

Authorised Signatory



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-054484**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 08/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 08/10/2025 |
| <b>Your order number:</b>   | SC1098           | <b>Analysis completed by:</b>                          | 17/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 20/10/2025 |
| <b>Samples Analysed:</b>    | 4 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-054484  
Project / Site name: Dove Valley Park  
Your Order No: SC1098

|                                         |               |                            |                              |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|
| Lab Sample Number                       | 709260        | 709261                     | 709262                       | 709263        |
| Sample Reference                        | C1583/96      | C1583/97                   | C1583/99                     | C1583/100     |
| Sample Number                           | AB4 - L7      | AA8 - L9                   | Z6 - L2                      | Y9 - L2       |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied |
| Date Sampled                            | 07/10/2025    | 07/10/2025                 | 07/10/2025                   | 07/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |

|                               |    |      |      |       |       |      |       |
|-------------------------------|----|------|------|-------|-------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 7.9  | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 10.1  | 1.7   | 10.2 | 1.7   |
| Moisture Content              | %  | 0.01 | NONE | 18    | 21    | 14   | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 1     | 0.9   | 0.8  | 1     |

#### General Inorganics

|                                                                         |          |        |        |        |       |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|-------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.6    | 8.1   | 8.3    | 8.1    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 570    | 390   | 510    | 430    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.057  | 0.039 | 0.051  | 0.043  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.019  | 0.013 | 0.017  | 0.014  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 160    | 180   | 200    | 180    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 78.3   | 89.9  | 99.1   | 89     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 78.3   | 89.9  | 99.1   | 89     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0052 | 0.006 | 0.0066 | 0.0059 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 1000   | 470   | 600    | 530    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.101  | 0.047 | 0.06   | 0.053  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 440    | 80    | 92     | 100    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.044  | 0.008 | 0.009  | 0.01   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 4.2    | 2.1   | 2.7    | 2.6    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 340    | 160   | 200    | 180    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.034  | 0.016 | 0.02   | 0.018  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 2.2    | 0.7   | 1      | 1      |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-054484**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 709260            | C1583/96         | AB4 - L7      | None Supplied | Brown clay and sand with gravel and vegetation |
| 709261            | C1583/97         | AA8 - L9      | None Supplied | Brown clay and sand with gravel and vegetation |
| 709262            | C1583/99         | Z6 - L2       | None Supplied | Brown clay and loam with vegetation and stones |
| 709263            | C1583/100        | Y9 - L2       | None Supplied | Brown clay and sand with gravel                |

**Analytical Report Number : 25-054484**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-054484**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 08/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 08/10/2025 |
| <b>Your order number:</b>   | SC1098           | <b>Analysis completed by:</b>                          | 17/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 20/10/2025 |
| <b>Samples Analysed:</b>    | 4 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-054484  
Project / Site name: Dove Valley Park  
Your Order No: SC1098

|                                         |               |                            |                              |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|
| Lab Sample Number                       | 709260        | 709261                     | 709262                       | 709263        |
| Sample Reference                        | C1583/96      | C1583/97                   | C1583/99                     | C1583/100     |
| Sample Number                           | AB4 - L7      | AA8 - L9                   | Z6 - L2                      | Y9 - L2       |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied |
| Date Sampled                            | 07/10/2025    | 07/10/2025                 | 07/10/2025                   | 07/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |

|                               |    |      |      |       |       |      |       |
|-------------------------------|----|------|------|-------|-------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 7.9  | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 10.1  | 1.7   | 10.2 | 1.7   |
| Moisture Content              | %  | 0.01 | NONE | 18    | 21    | 14   | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 1     | 0.9   | 0.8  | 1     |

#### General Inorganics

|                                                                         |          |        |        |        |       |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|-------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.6    | 8.1   | 8.3    | 8.1    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 570    | 390   | 510    | 430    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.057  | 0.039 | 0.051  | 0.043  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.019  | 0.013 | 0.017  | 0.014  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 160    | 180   | 200    | 180    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 78.3   | 89.9  | 99.1   | 89     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 78.3   | 89.9  | 99.1   | 89     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0052 | 0.006 | 0.0066 | 0.0059 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 1000   | 470   | 600    | 530    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.101  | 0.047 | 0.06   | 0.053  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 440    | 80    | 92     | 100    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.044  | 0.008 | 0.009  | 0.01   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 4.2    | 2.1   | 2.7    | 2.6    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 340    | 160   | 200    | 180    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.034  | 0.016 | 0.02   | 0.018  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 2.2    | 0.7   | 1      | 1      |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-054484**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 709260            | C1583/96         | AB4 - L7      | None Supplied | Brown clay and sand with gravel and vegetation |
| 709261            | C1583/97         | AA8 - L9      | None Supplied | Brown clay and sand with gravel and vegetation |
| 709262            | C1583/99         | Z6 - L2       | None Supplied | Brown clay and loam with vegetation and stones |
| 709263            | C1583/100        | Y9 - L2       | None Supplied | Brown clay and sand with gravel                |

**Analytical Report Number : 25-054484**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23558-23564      | Contract Sample No | C1583/137-143 |
| Report Date                                                                | 29 October 2025      | ETS Contract No    | C1583/137-143 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
|                                                                            | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 14/10/2025         |               |
|                                                                            | Date Received        | 14/10/2025         |               |
|                                                                            | Date Completed       | 28/10/2025         |               |
| Dove Valley Park                                                           | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/137-143      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-056091

| ETS Number | Sample Number | Location      | Material                          | Testing                       |
|------------|---------------|---------------|-----------------------------------|-------------------------------|
| ETS/23372  | 137           | AB10 Layer 18 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23373  | 138           | AB7 Layer 15  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23374  | 139           | AB9 Layer 18  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23375  | 141           | Z6 Layer 5    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23376  | 142           | Z8 Layer 9    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23393  | 143           | Y7 Layer 1    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |

Authorised Signatory

T. McDonald



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-056091**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 16/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 16/10/2025 |
| <b>Your order number:</b>   | SC1118           | <b>Analysis completed by:</b>                          | 28/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 28/10/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056091  
Project / Site name: Dove Valley Park  
Your Order No: SC1118

| Lab Sample Number                       |       |                            |                              | 718316         | 718317        | 718318        | 718319        | 718320        |
|-----------------------------------------|-------|----------------------------|------------------------------|----------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                            |                              | C1583          | C1583         | C1583         | C1583         | C1583         |
| Sample Number                           |       |                            |                              | 137 / AB10 L18 | 138 / AB7 L15 | 139 / AB9 L18 | 141 / 26 L5   | 142 / 28 L9   |
| Water Matrix                            |       |                            |                              | N/A            | N/A           | N/A           | N/A           | N/A           |
| Depth (m)                               |       |                            |                              | None Supplied  | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                            |                              | 14/10/2025     | 14/10/2025    | 14/10/2025    | 14/10/2025    | 14/10/2025    |
| Time Taken                              |       |                            |                              | None Supplied  | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                |               |               |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.8   | 3.7   | 2.7   | 0.4   | 4.3   |
| Moisture Content              | %  | 0.01 | NONE | 16    | 13    | 15    | 17    | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   | 1     |

#### General Inorganics

|                                                                         |          |        |        |        |        |         |         |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|---------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 7.2    | 7       | 5.1     | 7.2    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 420    | 640    | 490     | 300     | 290    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.042  | 0.064  | 0.049   | 0.03    | 0.029  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.014  | 0.021  | 0.016   | 0.01    | 0.01   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 49     | 44     | 59      | 59      | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 24.7   | 22     | 29.4    | 29.6    | 68.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 24.7   | 22     | 29.4    | 29.6    | 68.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0016 | 0.0015 | 0.002   | 0.002   | 0.0046 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 550    | 820    | 500     | 250     | 390    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.055  | 0.082  | 0.05    | 0.025   | 0.039  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 130    | 190    | < 20    | < 20    | 100    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.013  | 0.019  | < 0.002 | < 0.002 | 0.01   |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 9.9    | 9.7    | 20      | 11      | 6.5    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 180    | 270    | 170     | 82      | 130    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.018  | 0.027  | 0.017   | 0.008   | 0.013  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.3    | 3.3    | 1.5     | 0.2     | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056091

Project / Site name: Dove Valley Park

Your Order No: SC1118

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 718321        |                            |                              |  |
| Sample Reference                        | C1583         |                            |                              |  |
| Sample Number                           | 143 / Y7 L1   |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 14/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 5.2   |
| Moisture Content              | %  | 0.01 | NONE | 17    |
| Total mass of sample received | kg | 0.1  | NONE | 1     |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 320    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.032  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 69.6   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 69.6   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0046 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 42     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.004  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 5.1    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.4    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-056091**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|----------------|---------------|------------------------------------------------|
| 718316            | C1583            | 137 / AB10 L18 | None Supplied | Brown clay and sand with gravel and vegetation |
| 718317            | C1583            | 138 / AB7 L15  | None Supplied | Brown clay and sand with gravel and vegetation |
| 718318            | C1583            | 139 / AB9 L18  | None Supplied | Brown clay and sand with gravel and vegetation |
| 718319            | C1583            | 141 / 26 L5    | None Supplied | Brown clay and sand with gravel                |
| 718320            | C1583            | 142 / 28 L9    | None Supplied | Brown clay and sand with gravel                |
| 718321            | C1583            | 143 / Y7 L1    | None Supplied | Brown clay and sand with gravel                |

Analytical Report Number : 25-056091

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23372-23403      | Contract Sample No | C1583/126-133 |
| Report Date                                                                | 24 October 2025      | ETS Contract No    | C1583/126-133 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
| Dove Valley Park                                                           | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 13/10/2025         |               |
|                                                                            | Date Received        | 13/10/2025         |               |
|                                                                            | Date Completed       | 24/10/2025         |               |
|                                                                            | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/126-133      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-055549

| ETS Number | Sample Number | Location     | Material                              | Testing                      |
|------------|---------------|--------------|---------------------------------------|------------------------------|
| ETS/23372  | 126           | Marl Pit SP1 | Topsoil                               | Site Specific Chemical Suite |
| ETS/23373  | 127           | Marl Pit SP1 | Topsoil                               | Site Specific Chemical Suite |
| ETS/23374  | 128           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite |
| ETS/23375  | 129           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite |
| ETS/23376  | 131           | AB4 Layer 8  | Sand & Gravel (Class 6)               | TRL 447, OM                  |
| ETS/23393  | 132           | AA9 Layer 14 | Sand & Gravel (Class 6)               | TRL 447, OM                  |
| ETS/23394  | 133           | Z7 Layer 5   | Sand & Gravel (Class 6)               | TRL 447, OM                  |

Authorised Signatory

T. McDonald



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-055549-2**

Replaces Analytical Report Number: 25-055549, issue no. 1  
Additional analysis undertaken.  
Quantification added to samples 715562 & 715563 as per client's request.

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 14/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 14/10/2025 |
| <b>Your order number:</b>   | SC1115           | <b>Analysis completed by:</b>                          | 30/10/2025 |
| <b>Report Issue Number:</b> | 2                | <b>Report issued on:</b>                               | 03/11/2025 |
| <b>Samples Analysed:</b>    | 7 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

|                               |    |      |      |      |       |      |      |      |
|-------------------------------|----|------|------|------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 19.6 | < 0.1 | 41.4 | 28.5 | 25.5 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -    | -     | -    | -    | 48.6 |
| Moisture Content              | %  | 0.01 | NONE | 10   | 7.1   | 8.7  | 9.8  | 7.2  |
| Total mass of sample received | kg | 0.1  | NONE | 1.9  | 1.8   | 1.8  | 1.4  | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |              |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Detected     | Detected     | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MWI          | MWI          | MWI          | MWI          | - |
| Analysis completed                     | N/A  | N/A | N/A       | 22/10/2025   | 22/10/2025   | 22/10/2025   | 22/10/2025   | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Amosite detected                       | Type | N/A | ISO 17025 | -            | -            | Detected     | Not-detected | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | -            | -            | Detected     | Detected     | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |

|                                     |   |       |           |   |   |       |       |   |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | 0.007 | 0.001 | - |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|

|                                                   |      |     |           |   |   |                                    |                      |   |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | Loose Fibres, Loose Fibrous Debris | Loose Fibrous Debris | - |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |       |       |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|-------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | -     | 7.6    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 430    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.043  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.014  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | -     | 58     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | -     | 0.0019 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | -     | 650    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.065  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | -     | 210    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | -     | 0.021  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 220    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.022  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | -     | 2.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |       |   |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |   |
|------------------------|-------|------|-----------|--------|--------|--------|--------|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.15   | 0.06   | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.14   | < 0.05 | 1.3    | 0.31   | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.1    | < 0.05 | 1.2    | 0.26   | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.6    | 0.56   | 17     | 4.2    | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.35   | < 0.05 | 4.4    | 1.1    | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.3    | 1.7    | 26     | 9.5    | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 2.8    | 1.6    | 22     | 8.5    | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.4    | 0.83   | 11     | 4.5    | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.4    | 0.89   | 9.4    | 4.7    | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.8    | 1.1    | 12     | 5.9    | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.79   | 0.58   | 4.5    | 2.5    | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.4    | 0.96   | 9.5    | 4.8    | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.75   | 0.52   | 4.5    | 2.3    | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2    | 0.17   | 1.4    | 0.47   | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.88   | 0.58   | 5.1    | 2.6    | - |

#### Total PAH

|                             |       |     |           |      |      |     |      |   |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 16.9 | 9.49 | 129 | 51.8 | - |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |                      |       |       |   |
|------------------------------------|-------|------|--------|-------|----------------------|-------|-------|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 11    | 6.6                  | 14    | 15    | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 0.8                  | 1.4   | 1.4   | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.6   | 1.1                  | 1.9   | 1.7   | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.4   | 0.7                  | 2.2   | 1.8   | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | U/S <sup>U/S g</sup> | < 1.8 | < 1.8 | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 25    | U/S <sup>U/S g</sup> | 56    | 52    | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | -     | < 1.80               | -     | -     | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | -     | 22                   | -     | -     | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 25    | 22                   | 56    | 52    | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 85    | 34                   | 160   | 210   | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 110   | 40                   | 250   | 200   | - |
| 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 | 22    | 16                   | 44    | 43    | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0 | < 1.0                | 2.2   | 1.5   | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 33    | 38                   | 36    | 38    | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 120   | 100                  | 450   | 480   | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |       |       |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|-------|-------|---|
| TPH Total >EC6 - EC40 <sub>BH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 50    | 30    | 240   | 140   | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
| TPH (EC10 - EC40) <sub>BH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 50    | 30    | 240   | 140   | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055549

Project / Site name: Dove Valley Park

Your Order No: SC1115

|                                         |                     |                                                      |
|-----------------------------------------|---------------------|------------------------------------------------------|
| Lab Sample Number                       | 715565              | 715566                                               |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5                                    |
| Sample Number                           | None Supplied       | None Supplied                                        |
| Water Matrix                            | N/A                 | N/A                                                  |
| Depth (m)                               | None Supplied       | None Supplied                                        |
| Date Sampled                            | 13/10/2025          | 13/10/2025                                           |
| Time Taken                              | None Supplied       | None Supplied                                        |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of detection<br>Test Accreditation Status |

|                               |    |      |      |      |      |
|-------------------------------|----|------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 48.1 | 37.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 62.9 | 23.8 |
| Moisture Content              | %  | 0.01 | NONE | 3.5  | 5.5  |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |   |   |
|----------------------------------------|------|-----|-----------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | - | - |

|                                     |   |       |           |   |   |
|-------------------------------------|---|-------|-----------|---|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - |
|-------------------------------------|---|-------|-----------|---|---|

|                                                   |      |     |           |   |   |
|---------------------------------------------------|------|-----|-----------|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - |
|---------------------------------------------------|------|-----|-----------|---|---|

#### General Inorganics

|                                                                         |          |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.2    | 8.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 310    | 520    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.031  | 0.052  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01   | 0.017  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 36     | 73     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0012 | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 440    | 810    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.044  | 0.081  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 140    | 290    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.014  | 0.029  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150    | 270    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015  | 0.027  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.6    | 2.4    |

#### Total Phenols

|                            |       |   |        |   |   |
|----------------------------|-------|---|--------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - |
|----------------------------|-------|---|--------|---|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

|                                         |                     |                              |
|-----------------------------------------|---------------------|------------------------------|
| Lab Sample Number                       | 715565              | 715566                       |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5            |
| Sample Number                           | None Supplied       | None Supplied                |
| Water Matrix                            | N/A                 | N/A                          |
| Depth (m)                               | None Supplied       | None Supplied                |
| Date Sampled                            | 13/10/2025          | 13/10/2025                   |
| Time Taken                              | None Supplied       | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of<br>detection   |
|                                         |                     | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |   |   |
|------------------------|-------|------|-----------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - |

#### Total PAH

|                             |       |     |           |   |   |
|-----------------------------|-------|-----|-----------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - |
|-----------------------------|-------|-----|-----------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |
|------------------------------------|-------|------|--------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |

#### Petroleum Hydrocarbons

|                                                                  |       |    |           |   |   |
|------------------------------------------------------------------|-------|----|-----------|---|---|
| TPH Total >EC6 - EC40 <small>BH_CU+HS_ID_TOTAL</small>           | mg/kg | 10 | NONE      | - | - |
| Petroleum Range Organics (EC6 - EC10) <small>HS_ID_TOTAL</small> | mg/kg | 1  | ISO 17025 | - | - |
| TPH (EC10 - EC40) <small>BH_CU_ID_TOTAL</small>                  | mg/kg | 10 | MCERTS    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number: **25-055549**  
Project / Site name: **Dove Valley Park**  
Your Order No: **SC1115**

## Certificate of Analysis - Asbestos Quantification

### Methods:

#### Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

#### Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID                       | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results                     | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample | Analysis completed | Analyst ID |
|---------------|---------------------------------|------------------|-------------------|---------------------------------------------------|---------------------------------|---------------------------------------|----------------------------|--------------------|------------|
| <b>715562</b> | C1583/128/<br>Marl Pit -<br>SP2 | -                | 249               | Loose Fibres, Loose Fibrous Debris                | <b>Amosite &amp; Chrysotile</b> | 0.007                                 | <b>0.007</b>               | 30/10/2025         | MWI        |
| <b>715563</b> | C1583/129/<br>Marl Pit -<br>SP2 | -                | 213               | Loose Fibrous Debris                              | <b>Chrysotile</b>               | 0.001                                 | <b>0.001</b>               | 30/10/2025         | MWI        |

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



**Analytical Report Number : 25-055549**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|-------------------|---------------|---------------|------------------------------------------------|
| 715560            | 83/126/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715561            | 83/127/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 715562            | 83/128/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715563            | 83/129/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715564            | 1583/131/AB4 -    | None Supplied | None Supplied | Brown loam and sand with vegetation and stones |
| 715565            | 583/132/AA9 - L   | None Supplied | None Supplied | Brown sandy loam with vegetation and stones    |
| 715566            | 1583/133/Z7 - L   | None Supplied | None Supplied | Brown sand with gravel and stones              |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                                   | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                              | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                  | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                               | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                 | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry       | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                      | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                | In-house method                                                                                        | L019B         | W                  | NONE                 |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection           | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Asbestos Quantification - Gravimetric                                  | Asbestos quantification by gravimetric method - in house method based on references                                                    | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)                         | A006B         | D                  | ISO 17025            |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                           | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | 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               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-055458**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 13/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 13/10/2025 |
| <b>Your order number:</b>   | SC1109           | <b>Analysis completed by:</b>                          | 23/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 23/10/2025 |
| <b>Samples Analysed:</b>    | 16 soil samples  |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-055458

Project / Site name: Dove Valley Park

Your Order No: SC1109

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 714920        | 714921                     | 714922                       | 714923        | 714924        |
| Sample Reference                        | C1583/106     | C1583/107                  | C1583/108                    | C1583/109     | C1583/110     |
| Sample Number                           | AA6 - L2      | AA4 - L1                   | Z9-L6                        | AB10 - L13    | AA5 - L3      |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 08/10/2025    | 08/10/2025                 | 08/10/2025                   | 08/10/2025    | 08/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |      |       |       |
|-------------------------------|----|------|------|-------|-------|------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 12.4 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 2.5   | 12.5  | 13.4 | 0.9   | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 19    | 16    | 16   | 18    | 17    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   | 0.8   | 0.8  | 0.9   | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |        |         |         |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|--------|---------|---------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.8    | 6.5     | 6.3     | 5.8     | 7.6     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 420    | 270     | 290     | 380     | 590     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.042  | 0.027   | 0.029   | 0.038   | 0.059   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.014  | 0.009   | 0.01    | 0.013   | 0.02    |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 170    | 84      | 77      | 99      | 190     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 83     | 41.9    | 38.7    | 49.4    | 93.7    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 83     | 41.9    | 38.7    | 49.4    | 93.7    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0055 | 0.0028  | 0.0026  | 0.0033  | 0.0062  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 450    | 280     | 270     | 390     | 550     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.045  | 0.028   | 0.027   | 0.039   | 0.055   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 30     | < 20    | < 20    | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.003  | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 170    | 65      | 39      | 19      | 250     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150    | 92      | 89      | 130     | 180     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015  | 0.009   | 0.009   | 0.013   | 0.018   |
| Ammoniacal Nitrogen as NH <sub>4</sub> <sup>+</sup>                     | mg/kg    | 0.5    | MCERTS | < 0.5  | < 0.5   | < 0.5   | < 0.5   | < 0.5   |
| Ammonium as NH <sub>4</sub> <sup>+</sup> (10:1 leachate equivalent)     | mg/l     | 0.05   | MCERTS | < 0.05 | < 0.05  | < 0.05  | < 0.05  | < 0.05  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.4    | 0.4     | 0.4     | 0.5     | 0.7     |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub>                          | mg/kg    | 2      | NONE   | 32     | 28      | 27      | 24      | 25      |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)    | mg/l     | 5      | NONE   | 16     | 14      | 14      | 12      | 13      |

#### Heavy Metals / Metalloids

|                                 |       |     |      |     |    |    |    |    |
|---------------------------------|-------|-----|------|-----|----|----|----|----|
| Magnesium (leachate equivalent) | mg/l  | 2.5 | NONE | 52  | 23 | 16 | 11 | 26 |
| Magnesium (water soluble)       | mg/kg | 5   | NONE | 100 | 46 | 32 | 23 | 53 |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055458  
Project / Site name: Dove Valley Park  
Your Order No: SC1109

| Lab Sample Number                       |       |                            |                              | 714925        | 714926        | 714927        | 714928        | 714929        |
|-----------------------------------------|-------|----------------------------|------------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                            |                              | C1583/114     | C1583/115     | C1583/116     | C1583/117     | C1583/118     |
| Sample Number                           |       |                            |                              | AA4 - L4      | AA7 -L12      | AA9 -L11      | AB10 -L14     | AA7 - L13     |
| Water Matrix                            |       |                            |                              | N/A           | N/A           | N/A           | N/A           | N/A           |
| Depth (m)                               |       |                            |                              | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                            |                              | 09/10/2025    | 09/10/2025    | 09/10/2025    | 09/10/2025    | 09/10/2025    |
| Time Taken                              |       |                            |                              | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |               |               |               |

|                               |    |      |      |      |      |       |       |       |
|-------------------------------|----|------|------|------|------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 22.4 | 5.4  | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 47.8 | 29.5 | 8     | 3     | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 13   | 14   | 19    | 19    | 14    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9  | 0.9  | 0.8   | 0.9   | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |         |         |         |         |        |
|-------------------------------------------------------------------------|----------|--------|--------|---------|---------|---------|---------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.8     | 6.4     | 6.8     | 6.6     | 6.8    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 420     | 410     | 410     | 440     | 530    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.042   | 0.041   | 0.041   | 0.044   | 0.053  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.014   | 0.014   | 0.014   | 0.015   | 0.018  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150     | 140     | 130     | 130     | 190    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 72.9    | 71.3    | 66.7    | 63      | 97     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 72.9    | 71.3    | 66.7    | 63      | 97     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0049  | 0.0048  | 0.0044  | 0.0042  | 0.0065 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 420     | 420     | 360     | 400     | 550    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.042   | 0.042   | 0.036   | 0.04    | 0.055  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | < 20    | < 20    | < 20    | < 20    | 23     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | < 0.002 | < 0.002 | < 0.002 | < 0.002 | 0.002  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 40      | 11      | 17      | 13      | 66     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 140     | 140     | 120     | 130     | 180    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.014   | 0.014   | 0.012   | 0.013   | 0.018  |
| Ammoniacal Nitrogen as NH <sub>4</sub> <sup>+</sup>                     | mg/kg    | 0.5    | MCERTS | < 0.5   | < 0.5   | < 0.5   | < 0.5   | < 0.5  |
| Ammonium as NH <sub>4</sub> <sup>+</sup> (10:1 leachate equivalent)     | mg/l     | 0.05   | MCERTS | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.05 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6     | 0.7     | 0.5     | 0.6     | 0.9    |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub>                          | mg/kg    | 2      | NONE   | 6.3     | 9.8     | 12      | 12      | 10     |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)    | mg/l     | 5      | NONE   | < 5.0   | < 5.0   | 6       | 5.7     | 5.1    |

#### Heavy Metals / Metalloids

|                                 |       |     |      |    |    |    |     |    |
|---------------------------------|-------|-----|------|----|----|----|-----|----|
| Magnesium (leachate equivalent) | mg/l  | 2.5 | NONE | 14 | 10 | 13 | 9.8 | 13 |
| Magnesium (water soluble)       | mg/kg | 5   | NONE | 28 | 21 | 26 | 20  | 26 |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055458  
Project / Site name: Dove Valley Park  
Your Order No: SC1109

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 714930        | 714931                     | 714932                       | 714933        | 714934        |
| Sample Reference                        | C1583/119     | C1583/120                  | C1583/121                    | C1583/122     | C1583/123     |
| Sample Number                           | Z10 - L10     | AA10 - L12                 | AA5 - L7                     | AA9 - L13     | Z10 L11       |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 09/10/2025    | 09/10/2025                 | 09/10/2025                   | 09/10/2025    | 09/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 5.7   | 33.3  | 2.9   | 6.5   |
| Moisture Content              | %  | 0.01 | NONE | 17    | 14    | 16    | 15    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.7   | 0.7   | 0.6   | 0.7   | 0.6   |

#### General Inorganics

|                                                                         |          |        |        |        |         |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|---------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.8    | 6.9     | 6.8    | 7      | 6.6    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 390    | 350     | 420    | 390    | 450    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.039  | 0.035   | 0.042  | 0.039  | 0.045  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.012   | 0.014  | 0.013  | 0.015  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 100    | 130     | 160    | 120    | 160    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 50     | 64      | 80.3   | 59.6   | 80.3   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 50     | 64      | 80.3   | 59.6   | 80.3   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0033 | 0.0043  | 0.0054 | 0.004  | 0.0054 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 410    | 350     | 550    | 520    | 510    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.041  | 0.035   | 0.055  | 0.052  | 0.051  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 23     | < 20    | 120    | 130    | 63     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.002  | < 0.002 | 0.012  | 0.013  | 0.006  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 2      | 3.7     | 7.9    | 3.6    | 5.4    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 140    | 120     | 180    | 170    | 170    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.014  | 0.012   | 0.018  | 0.017  | 0.017  |
| Ammoniacal Nitrogen as NH <sub>4</sub> <sup>+</sup>                     | mg/kg    | 0.5    | MCERTS | < 0.5  | < 0.5   | < 0.5  | < 0.5  | < 0.5  |
| Ammonium as NH <sub>4</sub> <sup>+</sup> (10:1 leachate equivalent)     | mg/l     | 0.05   | MCERTS | < 0.05 | < 0.05  | < 0.05 | < 0.05 | < 0.05 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2    | 0.2     | 0.7    | 1.1    | 0.8    |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub>                          | mg/kg    | 2      | NONE   | 12     | 18      | 22     | 13     | 17     |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)    | mg/l     | 5      | NONE   | 5.9    | 8.8     | 11     | 6.4    | 8.3    |

#### Heavy Metals / Metalloids

|                                 |       |     |      |     |    |    |     |    |
|---------------------------------|-------|-----|------|-----|----|----|-----|----|
| Magnesium (leachate equivalent) | mg/l  | 2.5 | NONE | 9.7 | 12 | 16 | 5.2 | 8  |
| Magnesium (water soluble)       | mg/kg | 5   | NONE | 19  | 24 | 32 | 10  | 16 |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055458

Project / Site name: Dove Valley Park

Your Order No: SC1109

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 714935        |                            |                              |  |
| Sample Reference                        | C1583/124     |                            |                              |  |
| Sample Number                           | Z9 - L7       |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 09/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 1.1   |
| Moisture Content              | %  | 0.01 | NONE | 17    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 360    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.036  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 73     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 36.5   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 36.5   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 430    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.043  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 76     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.008  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 4      |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 140    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.014  |
| Ammoniacal Nitrogen as NH <sub>4</sub> <sup>+</sup>                     | mg/kg    | 0.5    | MCERTS | < 0.5  |
| Ammonium as NH <sub>4</sub> <sup>+</sup> (10:1 leachate equivalent)     | mg/l     | 0.05   | MCERTS | < 0.05 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.9    |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub>                          | mg/kg    | 2      | NONE   | 14     |
| Water Soluble Nitrate (2:1) as NO <sub>3</sub> (leachate equivalent)    | mg/l     | 5      | NONE   | 7.1    |

#### Heavy Metals / Metalloids

|                                 |       |     |      |     |
|---------------------------------|-------|-----|------|-----|
| Magnesium (leachate equivalent) | mg/l  | 2.5 | NONE | 5.7 |
| Magnesium (water soluble)       | mg/kg | 5   | NONE | 12  |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-055458**

**Project / Site name: Dove Valley Park**

\* 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 *                       |
|-------------------|------------------|---------------|---------------|--------------------------------------------|
| 714920            | C1583/106        | AA6 - L2      | None Supplied | Brown clay and sand                        |
| 714921            | C1583/107        | AA4 - L1      | None Supplied | Brown clay and sand with gravel            |
| 714922            | C1583/108        | Z9-L6         | None Supplied | Brown clay and sand with stones            |
| 714923            | C1583/109        | AB10 - L13    | None Supplied | Brown clay and sand                        |
| 714924            | C1583/110        | AA5 - L3      | None Supplied | Brown clay and sand                        |
| 714925            | C1583/114        | AA4 - L4      | None Supplied | Brown clay and sand with gravel and stones |
| 714926            | C1583/115        | AA7 -L12      | None Supplied | Brown clay and sand with gravel and stones |
| 714927            | C1583/116        | AA9 -L11      | None Supplied | Brown clay and sand                        |
| 714928            | C1583/117        | AB10 -L14     | None Supplied | Brown clay and sand                        |
| 714929            | C1583/118        | AA7 - L13     | None Supplied | Brown clay and sand with gravel            |
| 714930            | C1583/119        | Z10 - L10     | None Supplied | Brown clay and sand with gravel            |
| 714931            | C1583/120        | AA10 - L12    | None Supplied | Brown clay and sand with gravel            |
| 714932            | C1583/121        | AA5 - L7      | None Supplied | Brown clay and sand with gravel            |
| 714933            | C1583/122        | AA9 - L13     | None Supplied | Brown clay and sand with gravel            |
| 714934            | C1583/123        | Z10 L11       | None Supplied | Brown clay and sand with gravel            |
| 714935            | C1583/124        | Z9 - L7       | None Supplied | Brown clay and sand with gravel            |

Analytical Report Number : 25-055458

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                                                                        | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                                        | L019B         | W                  | NONE                 |
| 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.                                             | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                                                                       | L038B         | D                  | NONE                 |
| Magnesium, water soluble, in soil                  | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                               | In-house method based on TRL 447                                                                                       | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                                                                       | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                                                                        | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                                                                        | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                                                        | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                                                              | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                                                        | L038B         | D                  | NONE                 |
| Water Soluble Nitrate (leachate equivalent)        | Determination of nitrate by reaction with sodium salicylate and colorimetry                                                                         | In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction | L078-PL       | W                  | NONE                 |
| Nitrate, water soluble, in soil                    | Determination of nitrate by reaction with sodium salicylate and colorimetry                                                                         | In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction | L078-PL       | W                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                                                                        | L082B         | D                  | MCERTS               |
| Ammonium as NH <sub>4</sub> in soil                | Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton                 | L082B         | W                  | 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               |



Analytical Report Number : 25-055458  
Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)  
Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|
| Soil Descriptions    | Textural classification       | In-house method             | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-055549-2**

Replaces Analytical Report Number: 25-055549, issue no. 1  
Additional analysis undertaken.  
Quantification added to samples 715562 & 715563 as per client's request.

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 14/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 14/10/2025 |
| <b>Your order number:</b>   | SC1115           | <b>Analysis completed by:</b>                          | 30/10/2025 |
| <b>Report Issue Number:</b> | 2                | <b>Report issued on:</b>                               | 03/11/2025 |
| <b>Samples Analysed:</b>    | 7 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

|                               |    |      |      |      |       |      |      |      |
|-------------------------------|----|------|------|------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 19.6 | < 0.1 | 41.4 | 28.5 | 25.5 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -    | -     | -    | -    | 48.6 |
| Moisture Content              | %  | 0.01 | NONE | 10   | 7.1   | 8.7  | 9.8  | 7.2  |
| Total mass of sample received | kg | 0.1  | NONE | 1.9  | 1.8   | 1.8  | 1.4  | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |              |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Detected     | Detected     | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MWI          | MWI          | MWI          | MWI          | - |
| Analysis completed                     | N/A  | N/A | N/A       | 22/10/2025   | 22/10/2025   | 22/10/2025   | 22/10/2025   | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Amosite detected                       | Type | N/A | ISO 17025 | -            | -            | Detected     | Not-detected | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | -            | -            | Detected     | Detected     | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |

|                                     |   |       |           |   |   |       |       |   |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | 0.007 | 0.001 | - |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|

|                                                   |      |     |           |   |   |                                    |                      |   |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | Loose Fibres, Loose Fibrous Debris | Loose Fibrous Debris | - |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |       |       |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|-------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | -     | 7.6    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 430    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.043  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.014  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | -     | 58     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | -     | 0.0019 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | -     | 650    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.065  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | -     | 210    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | -     | 0.021  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 220    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.022  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | -     | 2.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |       |   |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |   |
|------------------------|-------|------|-----------|--------|--------|--------|--------|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.15   | 0.06   | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.14   | < 0.05 | 1.3    | 0.31   | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.1    | < 0.05 | 1.2    | 0.26   | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.6    | 0.56   | 17     | 4.2    | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.35   | < 0.05 | 4.4    | 1.1    | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.3    | 1.7    | 26     | 9.5    | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 2.8    | 1.6    | 22     | 8.5    | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.4    | 0.83   | 11     | 4.5    | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.4    | 0.89   | 9.4    | 4.7    | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.8    | 1.1    | 12     | 5.9    | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.79   | 0.58   | 4.5    | 2.5    | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.4    | 0.96   | 9.5    | 4.8    | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.75   | 0.52   | 4.5    | 2.3    | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2    | 0.17   | 1.4    | 0.47   | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.88   | 0.58   | 5.1    | 2.6    | - |

#### Total PAH

|                             |       |     |           |      |      |     |      |   |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 16.9 | 9.49 | 129 | 51.8 | - |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |                      |       |       |   |
|------------------------------------|-------|------|--------|-------|----------------------|-------|-------|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 11    | 6.6                  | 14    | 15    | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 0.8                  | 1.4   | 1.4   | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.6   | 1.1                  | 1.9   | 1.7   | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.4   | 0.7                  | 2.2   | 1.8   | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | U/S <sup>U/S g</sup> | < 1.8 | < 1.8 | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 25    | U/S <sup>U/S g</sup> | 56    | 52    | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | -     | < 1.80               | -     | -     | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | -     | 22                   | -     | -     | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 25    | 22                   | 56    | 52    | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 85    | 34                   | 160   | 210   | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 110   | 40                   | 250   | 200   | - |
| 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 | 22    | 16                   | 44    | 43    | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0 | < 1.0                | 2.2   | 1.5   | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 33    | 38                   | 36    | 38    | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 120   | 100                  | 450   | 480   | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |       |       |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|-------|-------|---|
| TPH Total >EC6 - EC40 <sub>BH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 50    | 30    | 240   | 140   | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
| TPH (EC10 - EC40) <sub>BH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 50    | 30    | 240   | 140   | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055549

Project / Site name: Dove Valley Park

Your Order No: SC1115

|                                         |                     |                                                      |
|-----------------------------------------|---------------------|------------------------------------------------------|
| Lab Sample Number                       | 715565              | 715566                                               |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5                                    |
| Sample Number                           | None Supplied       | None Supplied                                        |
| Water Matrix                            | N/A                 | N/A                                                  |
| Depth (m)                               | None Supplied       | None Supplied                                        |
| Date Sampled                            | 13/10/2025          | 13/10/2025                                           |
| Time Taken                              | None Supplied       | None Supplied                                        |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of detection<br>Test Accreditation Status |

|                               |    |      |      |      |      |
|-------------------------------|----|------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 48.1 | 37.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 62.9 | 23.8 |
| Moisture Content              | %  | 0.01 | NONE | 3.5  | 5.5  |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |   |   |
|----------------------------------------|------|-----|-----------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | - | - |

|                                     |   |       |           |   |   |
|-------------------------------------|---|-------|-----------|---|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - |
|-------------------------------------|---|-------|-----------|---|---|

|                                                   |      |     |           |   |   |
|---------------------------------------------------|------|-----|-----------|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - |
|---------------------------------------------------|------|-----|-----------|---|---|

#### General Inorganics

|                                                                         |          |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.2    | 8.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 310    | 520    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.031  | 0.052  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01   | 0.017  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 36     | 73     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0012 | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 440    | 810    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.044  | 0.081  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 140    | 290    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.014  | 0.029  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150    | 270    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015  | 0.027  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.6    | 2.4    |

#### Total Phenols

|                            |       |   |        |   |   |
|----------------------------|-------|---|--------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - |
|----------------------------|-------|---|--------|---|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

|                                         |                     |                           |
|-----------------------------------------|---------------------|---------------------------|
| Lab Sample Number                       | 715565              | 715566                    |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5         |
| Sample Number                           | None Supplied       | None Supplied             |
| Water Matrix                            | N/A                 | N/A                       |
| Depth (m)                               | None Supplied       | None Supplied             |
| Date Sampled                            | 13/10/2025          | 13/10/2025                |
| Time Taken                              | None Supplied       | None Supplied             |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of detection   |
|                                         |                     | Test Accreditation Status |

#### Speciated PAHs

|                        |       |      |           |   |   |
|------------------------|-------|------|-----------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - |

#### Total PAH

|                             |       |     |           |   |   |
|-----------------------------|-------|-----|-----------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - |
|-----------------------------|-------|-----|-----------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |
|------------------------------------|-------|------|--------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |

#### Petroleum Hydrocarbons

|                                                                  |       |    |           |   |   |
|------------------------------------------------------------------|-------|----|-----------|---|---|
| TPH Total >EC6 - EC40 <small>BH_CU+HS_ID_TOTAL</small>           | mg/kg | 10 | NONE      | - | - |
| Petroleum Range Organics (EC6 - EC10) <small>HS_ID_TOTAL</small> | mg/kg | 1  | ISO 17025 | - | - |
| TPH (EC10 - EC40) <small>BH_CU_ID_TOTAL</small>                  | mg/kg | 10 | MCERTS    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number: **25-055549**  
Project / Site name: **Dove Valley Park**  
Your Order No: **SC1115**

## Certificate of Analysis - Asbestos Quantification

### Methods:

#### Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

#### Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID                       | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results                     | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample | Analysis completed | Analyst ID |
|---------------|---------------------------------|------------------|-------------------|---------------------------------------------------|---------------------------------|---------------------------------------|----------------------------|--------------------|------------|
| <b>715562</b> | C1583/128/<br>Marl Pit -<br>SP2 | -                | 249               | Loose Fibres, Loose Fibrous Debris                | <b>Amosite &amp; Chrysotile</b> | 0.007                                 | <b>0.007</b>               | 30/10/2025         | MWI        |
| <b>715563</b> | C1583/129/<br>Marl Pit -<br>SP2 | -                | 213               | Loose Fibrous Debris                              | <b>Chrysotile</b>               | 0.001                                 | <b>0.001</b>               | 30/10/2025         | MWI        |

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



**Analytical Report Number : 25-055549**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|-------------------|---------------|---------------|------------------------------------------------|
| 715560            | 83/126/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715561            | 83/127/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 715562            | 83/128/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715563            | 83/129/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715564            | 583/131/AB4 -     | None Supplied | None Supplied | Brown loam and sand with vegetation and stones |
| 715565            | 583/132/AA9 - L   | None Supplied | None Supplied | Brown sandy loam with vegetation and stones    |
| 715566            | 1583/133/Z7 - L   | None Supplied | None Supplied | Brown sand with gravel and stones              |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                                   | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                              | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                  | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                               | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                 | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry       | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                      | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                | In-house method                                                                                        | L019B         | W                  | NONE                 |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection           | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Asbestos Quantification - Gravimetric                                  | Asbestos quantification by gravimetric method - in house method based on references                                                    | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)                         | A006B         | D                  | ISO 17025            |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)  
Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                           | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | 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               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-055549-2**

Replaces Analytical Report Number: 25-055549, issue no. 1  
Additional analysis undertaken.  
Quantification added to samples 715562 & 715563 as per client's request.

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 14/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 14/10/2025 |
| <b>Your order number:</b>   | SC1115           | <b>Analysis completed by:</b>                          | 30/10/2025 |
| <b>Report Issue Number:</b> | 2                | <b>Report issued on:</b>                               | 03/11/2025 |
| <b>Samples Analysed:</b>    | 7 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

|                               |    |      |      |      |       |      |      |      |
|-------------------------------|----|------|------|------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 19.6 | < 0.1 | 41.4 | 28.5 | 25.5 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -    | -     | -    | -    | 48.6 |
| Moisture Content              | %  | 0.01 | NONE | 10   | 7.1   | 8.7  | 9.8  | 7.2  |
| Total mass of sample received | kg | 0.1  | NONE | 1.9  | 1.8   | 1.8  | 1.4  | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |              |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Detected     | Detected     | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MWI          | MWI          | MWI          | MWI          | - |
| Analysis completed                     | N/A  | N/A | N/A       | 22/10/2025   | 22/10/2025   | 22/10/2025   | 22/10/2025   | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Amosite detected                       | Type | N/A | ISO 17025 | -            | -            | Detected     | Not-detected | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | -            | -            | Detected     | Detected     | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | -            | -            | Not-detected | Not-detected | - |

|                                     |   |       |           |   |   |       |       |   |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | 0.007 | 0.001 | - |
|-------------------------------------|---|-------|-----------|---|---|-------|-------|---|

|                                                   |      |     |           |   |   |                                    |                      |   |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | Loose Fibres, Loose Fibrous Debris | Loose Fibrous Debris | - |
|---------------------------------------------------|------|-----|-----------|---|---|------------------------------------|----------------------|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |       |       |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|-------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | -     | 7.6    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 430    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.043  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.014  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | -     | 58     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | -     | 28.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | -     | 0.0019 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | -     | 650    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | -     | 0.065  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | -     | 210    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | -     | 0.021  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | -     | 220    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | -     | 0.022  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | -     | 2.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |       |   |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
|----------------------------|-------|---|--------|-------|-------|-------|-------|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

| Lab Sample Number                    | 715560                   | 715561                   | 715562                    | 715563                   | 715564             |
|--------------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------|
| Sample Reference                     | C1583/126/Marl Pit - SP1 | C1583/127/Marl Pit - SP1 | C1583/128/Marl Pit - SP2  | C1583/129/Marl Pit - SP2 | C1583/131/AB4 - L8 |
| Sample Number                        | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Water Matrix                         | N/A                      | N/A                      | N/A                       | N/A                      | N/A                |
| Depth (m)                            | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Date Sampled                         | 13/10/2025               | 13/10/2025               | 13/10/2025                | 13/10/2025               | 13/10/2025         |
| Time Taken                           | None Supplied            | None Supplied            | None Supplied             | None Supplied            | None Supplied      |
| Analytical Parameter (Soil Analysis) | Units                    | Test Limit of detection  | Test Accreditation Status |                          |                    |

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |   |
|------------------------|-------|------|-----------|--------|--------|--------|--------|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.15   | 0.06   | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.14   | < 0.05 | 1.3    | 0.31   | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.1    | < 0.05 | 1.2    | 0.26   | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.6    | 0.56   | 17     | 4.2    | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.35   | < 0.05 | 4.4    | 1.1    | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.3    | 1.7    | 26     | 9.5    | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 2.8    | 1.6    | 22     | 8.5    | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.4    | 0.83   | 11     | 4.5    | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.4    | 0.89   | 9.4    | 4.7    | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.8    | 1.1    | 12     | 5.9    | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.79   | 0.58   | 4.5    | 2.5    | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.4    | 0.96   | 9.5    | 4.8    | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.75   | 0.52   | 4.5    | 2.3    | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2    | 0.17   | 1.4    | 0.47   | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.88   | 0.58   | 5.1    | 2.6    | - |

#### Total PAH

|                             |       |     |           |      |      |     |      |   |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 16.9 | 9.49 | 129 | 51.8 | - |
|-----------------------------|-------|-----|-----------|------|------|-----|------|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |                      |       |       |   |
|------------------------------------|-------|------|--------|-------|----------------------|-------|-------|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 11    | 6.6                  | 14    | 15    | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 0.8                  | 1.4   | 1.4   | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.6   | 1.1                  | 1.9   | 1.7   | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.4   | 0.7                  | 2.2   | 1.8   | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | U/S <sup>U/S g</sup> | < 1.8 | < 1.8 | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 25    | U/S <sup>U/S g</sup> | 56    | 52    | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | -     | < 1.80               | -     | -     | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | -     | 22                   | -     | -     | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 25    | 22                   | 56    | 52    | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 85    | 34                   | 160   | 210   | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 110   | 40                   | 250   | 200   | - |
| 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 | 22    | 16                   | 44    | 43    | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0 | < 1.0                | 2.2   | 1.5   | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 33    | 38                   | 36    | 38    | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 120   | 100                  | 450   | 480   | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |       |       |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|-------|-------|---|
| TPH Total >EC6 - EC40 <sub>BH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 50    | 30    | 240   | 140   | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | - |
| TPH (EC10 - EC40) <sub>BH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 50    | 30    | 240   | 140   | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-055549

Project / Site name: Dove Valley Park

Your Order No: SC1115

|                                         |                     |                           |
|-----------------------------------------|---------------------|---------------------------|
| Lab Sample Number                       | 715565              | 715566                    |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5         |
| Sample Number                           | None Supplied       | None Supplied             |
| Water Matrix                            | N/A                 | N/A                       |
| Depth (m)                               | None Supplied       | None Supplied             |
| Date Sampled                            | 13/10/2025          | 13/10/2025                |
| Time Taken                              | None Supplied       | None Supplied             |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of detection   |
|                                         |                     | Test Accreditation Status |

|                               |    |      |      |      |      |
|-------------------------------|----|------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 48.1 | 37.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 62.9 | 23.8 |
| Moisture Content              | %  | 0.01 | NONE | 3.5  | 5.5  |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |   |   |
|----------------------------------------|------|-----|-----------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | - | - |

|                                     |   |       |           |   |   |
|-------------------------------------|---|-------|-----------|---|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - |
|-------------------------------------|---|-------|-----------|---|---|

|                                                   |      |     |           |   |   |
|---------------------------------------------------|------|-----|-----------|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - |
|---------------------------------------------------|------|-----|-----------|---|---|

#### General Inorganics

|                                                                         |          |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.2    | 8.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 310    | 520    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.031  | 0.052  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01   | 0.017  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 36     | 73     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 18.1   | 36.3   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0012 | 0.0024 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 440    | 810    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.044  | 0.081  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 140    | 290    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.014  | 0.029  |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 150    | 270    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.015  | 0.027  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.6    | 2.4    |

#### Total Phenols

|                            |       |   |        |   |   |
|----------------------------|-------|---|--------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - |
|----------------------------|-------|---|--------|---|---|

Analytical Report Number: 25-055549  
Project / Site name: Dove Valley Park  
Your Order No: SC1115

|                                         |                     |                              |
|-----------------------------------------|---------------------|------------------------------|
| Lab Sample Number                       | 715565              | 715566                       |
| Sample Reference                        | C1583/132/AA9 - L14 | C1583/133/Z7 - L5            |
| Sample Number                           | None Supplied       | None Supplied                |
| Water Matrix                            | N/A                 | N/A                          |
| Depth (m)                               | None Supplied       | None Supplied                |
| Date Sampled                            | 13/10/2025          | 13/10/2025                   |
| Time Taken                              | None Supplied       | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units               | Test Limit of<br>detection   |
|                                         |                     | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |   |   |
|------------------------|-------|------|-----------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - |

#### Total PAH

|                             |       |     |           |   |   |
|-----------------------------|-------|-----|-----------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - |
|-----------------------------|-------|-----|-----------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |
|------------------------------------|-------|------|--------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - |

#### Petroleum Hydrocarbons

|                                                                  |       |    |           |   |   |
|------------------------------------------------------------------|-------|----|-----------|---|---|
| TPH Total >EC6 - EC40 <small>BH_CU+HS_ID_TOTAL</small>           | mg/kg | 10 | NONE      | - | - |
| Petroleum Range Organics (EC6 - EC10) <small>HS_ID_TOTAL</small> | mg/kg | 1  | ISO 17025 | - | - |
| TPH (EC10 - EC40) <small>BH_CU_ID_TOTAL</small>                  | mg/kg | 10 | MCERTS    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number: **25-055549**  
Project / Site name: **Dove Valley Park**  
Your Order No: **SC1115**

## Certificate of Analysis - Asbestos Quantification

### Methods:

#### Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

#### Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID                       | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results                     | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample | Analysis completed | Analyst ID |
|---------------|---------------------------------|------------------|-------------------|---------------------------------------------------|---------------------------------|---------------------------------------|----------------------------|--------------------|------------|
| <b>715562</b> | C1583/128/<br>Marl Pit -<br>SP2 | -                | 249               | Loose Fibres, Loose Fibrous Debris                | <b>Amosite &amp; Chrysotile</b> | 0.007                                 | <b>0.007</b>               | 30/10/2025         | MWI        |
| <b>715563</b> | C1583/129/<br>Marl Pit -<br>SP2 | -                | 213               | Loose Fibrous Debris                              | <b>Chrysotile</b>               | 0.001                                 | <b>0.001</b>               | 30/10/2025         | MWI        |

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



**Analytical Report Number : 25-055549**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|-------------------|---------------|---------------|------------------------------------------------|
| 715560            | 83/126/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715561            | 83/127/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 715562            | 83/128/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715563            | 83/129/Marl Pit - | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 715564            | 583/131/AB4 -     | None Supplied | None Supplied | Brown loam and sand with vegetation and stones |
| 715565            | 583/132/AA9 - L   | None Supplied | None Supplied | Brown sandy loam with vegetation and stones    |
| 715566            | 1583/133/Z7 - L   | None Supplied | None Supplied | Brown sand with gravel and stones              |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                                   | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                              | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                  | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                               | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                 | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry       | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                      | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                | In-house method                                                                                        | L019B         | W                  | NONE                 |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection           | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Asbestos Quantification - Gravimetric                                  | Asbestos quantification by gravimetric method - in house method based on references                                                    | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)                         | A006B         | D                  | ISO 17025            |

Analytical Report Number : 25-055549

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)  
Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                           | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                           | L038B         | D                  | 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               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-056091**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 16/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 16/10/2025 |
| <b>Your order number:</b>   | SC1118           | <b>Analysis completed by:</b>                          | 28/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 28/10/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056091  
Project / Site name: Dove Valley Park  
Your Order No: SC1118

| Lab Sample Number                       | 718316         | 718317                     | 718318                       | 718319        | 718320        |
|-----------------------------------------|----------------|----------------------------|------------------------------|---------------|---------------|
| Sample Reference                        | C1583          | C1583                      | C1583                        | C1583         | C1583         |
| Sample Number                           | 137 / AB10 L18 | 138 / AB7 L15              | 139 / AB9 L18                | 141 / 26 L5   | 142 / 28 L9   |
| Water Matrix                            | N/A            | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied  | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 14/10/2025     | 14/10/2025                 | 14/10/2025                   | 14/10/2025    | 14/10/2025    |
| Time Taken                              | None Supplied  | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units          | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 0.8   | 3.7   | 2.7   | 0.4   | 4.3   |
| Moisture Content              | %  | 0.01 | NONE | 16    | 13    | 15    | 17    | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   | 1     |

#### General Inorganics

| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.3    | 7.2    | 7       | 5.1     | 7.2    |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|---------|---------|--------|
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 420    | 640    | 490     | 300     | 290    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.042  | 0.064  | 0.049   | 0.03    | 0.029  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.014  | 0.021  | 0.016   | 0.01    | 0.01   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 49     | 44     | 59      | 59      | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 24.7   | 22     | 29.4    | 29.6    | 68.4   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 24.7   | 22     | 29.4    | 29.6    | 68.4   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0016 | 0.0015 | 0.002   | 0.002   | 0.0046 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 550    | 820    | 500     | 250     | 390    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.055  | 0.082  | 0.05    | 0.025   | 0.039  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 130    | 190    | < 20    | < 20    | 100    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.013  | 0.019  | < 0.002 | < 0.002 | 0.01   |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 9.9    | 9.7    | 20      | 11      | 6.5    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 180    | 270    | 170     | 82      | 130    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.018  | 0.027  | 0.017   | 0.008   | 0.013  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 1.3    | 3.3    | 1.5     | 0.2     | 0.5    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056091

Project / Site name: Dove Valley Park

Your Order No: SC1118

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 718321        |                            |                              |  |
| Sample Reference                        | C1583         |                            |                              |  |
| Sample Number                           | 143 / Y7 L1   |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 14/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 5.2   |
| Moisture Content              | %  | 0.01 | NONE | 17    |
| Total mass of sample received | kg | 0.1  | NONE | 1     |

#### General Inorganics

|                                                                         |          |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 320    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.032  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 69.6   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 69.6   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0046 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 42     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.004  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 5.1    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.4    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-056091**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|----------------|---------------|------------------------------------------------|
| 718316            | C1583            | 137 / AB10 L18 | None Supplied | Brown clay and sand with gravel and vegetation |
| 718317            | C1583            | 138 / AB7 L15  | None Supplied | Brown clay and sand with gravel and vegetation |
| 718318            | C1583            | 139 / AB9 L18  | None Supplied | Brown clay and sand with gravel and vegetation |
| 718319            | C1583            | 141 / 26 L5    | None Supplied | Brown clay and sand with gravel                |
| 718320            | C1583            | 142 / 28 L9    | None Supplied | Brown clay and sand with gravel                |
| 718321            | C1583            | 143 / Y7 L1    | None Supplied | Brown clay and sand with gravel                |

Analytical Report Number : 25-056091

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |                |
|----------------------------------------------------------------------------|----------------------|--------------------|----------------|
| Laboratory Report                                                          | ETS/23610-23619      | Contract Sample No | C1583/143B-151 |
| Report Date                                                                | 04 November 2025     | ETS Contract No    | C1583/143B-151 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |                |
| Dove Valley Park                                                           | Source               | Ex-Site            |                |
|                                                                            | Supplier             | Ex-Site            |                |
|                                                                            | Date Sampled         | 15/10/2025         |                |
|                                                                            | Date Received        | 15/10/2025         |                |
|                                                                            | Date Completed       | 02/11/2025         |                |
|                                                                            | Sample Location      | See Below          |                |
|                                                                            | Client Reference     | C1583/143B-151     |                |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

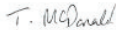
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-056090

| ETS Number | Sample Number | Location     | Material                              | Testing                       |
|------------|---------------|--------------|---------------------------------------|-------------------------------|
| ETS/23610  | 143B          | Z4 Layer 6   | Brown Clay W/F-M Gravel (Class 7)     | TRL 447, OM, PH, Chloride ION |
| ETS/23611  | 144           | Z8 Layer 10  | Brown Clay W/F-M Gravel (Class 7)     | TRL 447, OM, PH, Chloride ION |
| ETS/23614  | 147           | AA9 Layer 16 | Brown Clay W/F-M Gravel (Class 7)     | TRL 447, OM, PH, Chloride ION |
| ETS/23615  | 148           | Z9 Layer 12  | Brown Clay W/F-M Gravel (Class 7)     | TRL 447, OM, PH, Chloride ION |
| ETS/23616  | 149           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |
| ETS/23617  | 150           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |
| ETS/23618  | 151           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |
| ETS/23619  | 152           | Marl Pit SP2 | Brown Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |

Authorised Signatory





Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

t: 01923 225404

e: subcontractors@earthworkstesting.co.uk  
hs@earthworkstesting.co.uk

f: 01923 237404

e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-056090**

Replaces Analytical Report Number: 25-056090, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to samples 718312-315 as per client's request

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 16/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 16/10/2025 |
| <b>Your order number:</b>   | SC1122           | <b>Analysis completed by:</b>                          | 31/10/2025 |
| <b>Report Issue Number:</b> | 2                | <b>Report issued on:</b>                               | 02/11/2025 |
| <b>Samples Analysed:</b>    | 8 soil samples   |                                                        |            |

**Signed:**

Rachel Chappell  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |               |                            |                              |               |                |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|----------------|
| Lab Sample Number                       | 718308        | 718309                     | 718310                       | 718311        | 718312         |
| Sample Reference                        | C1583/143     | C1583/144                  | C1583/147                    | C1583/148     | C1583/149      |
| Sample Number                           | Z4-L6         | Z8-L10                     | AA9-L16                      | Z9-L12        | Marl Pit - SP2 |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A            |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Date Sampled                            | 15/10/2025    | 15/10/2025                 | 15/10/2025                   | 15/10/2025    | 15/10/2025     |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |                |

|                               |    |      |      |       |       |       |       |      |
|-------------------------------|----|------|------|-------|-------|-------|-------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 18.9 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 8.3   | < 0.1 | 2.2   | 0.6   | -    |
| Moisture Content              | %  | 0.01 | NONE | 11    | 13    | 11    | 13    | 8.7  |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 1     | 0.6   | 0.9   | 1.5  |

#### Asbestos

|                                        |      |     |           |   |   |   |   |              |
|----------------------------------------|------|-----|-----------|---|---|---|---|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - | - | Detected     |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - | - | - | MBI          |
| Analysis completed                     | N/A  | N/A | N/A       | - | - | - | - | 27/10/2025   |
| Actinolite detected                    | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Amosite detected                       | Type | N/A | ISO 17025 | - | - | - | - | Detected     |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Chrysotile detected                    | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Crocidolite detected                   | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Tremolite detected                     | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |

|                                     |   |       |           |   |   |   |   |         |
|-------------------------------------|---|-------|-----------|---|---|---|---|---------|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | - | - | < 0.001 |
|-------------------------------------|---|-------|-----------|---|---|---|---|---------|

|                                                   |      |     |           |   |   |   |   |              |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|--------------|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | - | - | Loose Fibres |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|--------------|

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |       |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    | 7.4    | 7.7    | 7      | -     |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      | -      | -      | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 300    | 410    | 310    | 190    | -     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.03   | 0.041  | 0.031  | 0.019  | -     |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01   | 0.014  | 0.01   | 0.006  | -     |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 170    | 290    | 110    | 98     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 82.6   | 147    | 53     | 49     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 82.6   | 147    | 53     | 49     | -     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0055 | 0.0098 | 0.0035 | 0.0033 | -     |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360    | 880    | 370    | 230    | -     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036  | 0.088  | 0.037  | 0.023  | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 58     | 470    | 54     | 35     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.047  | 0.005  | 0.004  | -     |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 3      | 110    | 1.7    | 3.7    | -     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120    | 290    | 120    | 76     | -     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012  | 0.029  | 0.012  | 0.008  | -     |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5    | 0.7    | 0.4    | < 0.1  | -     |

#### Total Phenols

|                            |       |   |        |   |   |   |   |       |
|----------------------------|-------|---|--------|---|---|---|---|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | - | - | < 1.0 |
|----------------------------|-------|---|--------|---|---|---|---|-------|

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |               |                            |                              |               |                |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|----------------|
| Lab Sample Number                       | 718308        | 718309                     | 718310                       | 718311        | 718312         |
| Sample Reference                        | C1583/143     | C1583/144                  | C1583/147                    | C1583/148     | C1583/149      |
| Sample Number                           | Z4-L6         | Z8-L10                     | AA9-L16                      | Z9-L12        | Marl Pit - SP2 |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A            |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Date Sampled                            | 15/10/2025    | 15/10/2025                 | 15/10/2025                   | 15/10/2025    | 15/10/2025     |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |                |

#### Speciated PAHs

|                        |       |      |           |   |   |   |   |      |
|------------------------|-------|------|-----------|---|---|---|---|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.15 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.33 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.87 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.62 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - | - | 3.9  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 33   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - | - | 28   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 13   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 13   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 16   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 7.2  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 14   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.1  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - | - | 1.6  |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.9  |

#### Total PAH

|                             |       |     |           |   |   |   |   |     |
|-----------------------------|-------|-----|-----------|---|---|---|---|-----|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | - | - | 157 |
|-----------------------------|-------|-----|-----------|---|---|---|---|-----|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |   |   |                      |
|------------------------------------|-------|------|--------|---|---|---|---|----------------------|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - | - | - | 17                   |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - | - | - | 2.1                  |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - | - | - | 2                    |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - | - | - | 1.1                  |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - | - | - | U/S <sup>mg/kg</sup> |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - | - | - | U/S <sup>mg/kg</sup> |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | - | - | - | - | 3.84                 |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | - | - | - | - | 41                   |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 45                   |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - | - | 83                   |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - | - | 160                  |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - | - | - | 0.3                  |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - | - | 41                   |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 2.3                  |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 39                   |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - | - | 300                  |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |   |   |   |   |       |
|--------------------------------------------------------------|-------|----|-----------|---|---|---|---|-------|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | - | - | - | - | 450   |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | - | - | - | - | < 1.0 |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | - | - | - | - | 450   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |                |                            |                              |
|-----------------------------------------|----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 718313         | 718314                     | 718315                       |
| Sample Reference                        | C1583/150      | C1583/151                  | C1583/152                    |
| Sample Number                           | Marl Pit - SP2 | Marl Pit - SP2             | Marl Pit - SP2               |
| Water Matrix                            | N/A            | N/A                        | N/A                          |
| Depth (m)                               | None Supplied  | None Supplied              | None Supplied                |
| Date Sampled                            | 15/10/2025     | 15/10/2025                 | 15/10/2025                   |
| Time Taken                              | None Supplied  | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units          | Test Limit of<br>detection | Test Accreditation<br>Status |

|                               |    |      |      |      |      |      |
|-------------------------------|----|------|------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 18.7 | 59.4 | 24.2 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -    | -    | -    |
| Moisture Content              | %  | 0.01 | NONE | 9.4  | 8.4  | 11   |
| Total mass of sample received | kg | 0.1  | NONE | 1.6  | 1.9  | 1.8  |

#### Asbestos

|                                        |      |     |           |              |              |              |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Detected     | Detected     | Detected     |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MBI          | MBI          | MBI          |
| Analysis completed                     | N/A  | N/A | N/A       | 27/10/2025   | 27/10/2025   | 27/10/2025   |
| Actinolite detected                    | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Amosite detected                       | Type | N/A | ISO 17025 | Not-detected | Detected     | Not-detected |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Chrysotile detected                    | Type | N/A | ISO 17025 | Detected     | Not-detected | Detected     |
| Crocidolite detected                   | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Tremolite detected                     | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |

|                                     |   |       |           |       |         |         |
|-------------------------------------|---|-------|-----------|-------|---------|---------|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | 0.023 | < 0.001 | < 0.001 |
|-------------------------------------|---|-------|-----------|-------|---------|---------|

|                                                   |      |     |           |                 |              |                                  |
|---------------------------------------------------|------|-----|-----------|-----------------|--------------|----------------------------------|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | Asbestos Cement | Loose Fibres | Loose Fibres,<br>Asbestos Cement |
|---------------------------------------------------|------|-----|-----------|-----------------|--------------|----------------------------------|

#### General Inorganics

|                                                                         |          |        |        |       |       |       |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -     | -     | -     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     |

#### Total Phenols

|                            |       |   |        |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |                |                            |                              |
|-----------------------------------------|----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 718313         | 718314                     | 718315                       |
| Sample Reference                        | C1583/150      | C1583/151                  | C1583/152                    |
| Sample Number                           | Marl Pit - SP2 | Marl Pit - SP2             | Marl Pit - SP2               |
| Water Matrix                            | N/A            | N/A                        | N/A                          |
| Depth (m)                               | None Supplied  | None Supplied              | None Supplied                |
| Date Sampled                            | 15/10/2025     | 15/10/2025                 | 15/10/2025                   |
| Time Taken                              | None Supplied  | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units          | Test Limit of<br>detection | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |        |      |      |
|------------------------|-------|------|-----------|--------|------|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.2  | 0.12 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.25   | 0.25 | 0.22 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.7    | 2.2  | 0.9  |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.52   | 1.5  | 0.82 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 10     | 16   | 11   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 2.5    | 4    | 3.4  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 23     | 28   | 25   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 20     | 25   | 22   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 12     | 12   | 12   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 13     | 11   | 11   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 12     | 14   | 14   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 5.4    | 5.5  | 6.2  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 9.3    | 11   | 12   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 4.4    | 4.9  | 5    |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 1.1    | 1.3  | 1.3  |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 4.8    | 5.4  | 5.4  |

#### Total PAH

|                             |       |     |           |     |     |     |
|-----------------------------|-------|-----|-----------|-----|-----|-----|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 118 | 142 | 130 |
|-----------------------------|-------|-----|-----------|-----|-----|-----|

#### Heavy Metals / Metalloids

|                                    |       |      |        |                      |                      |                      |
|------------------------------------|-------|------|--------|----------------------|----------------------|----------------------|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 18                   | 18                   | 16                   |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 2.3                  | 1.8                  | 1.7                  |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.1                  | 1.5                  | 1.5                  |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 1.2                  | 1.5                  | 1.5                  |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | U/S <sup>u/s g</sup> | U/S <sup>u/s g</sup> | U/S <sup>u/s g</sup> |
| Chromium (III)                     | mg/kg | 1    | NONE   | U/S <sup>u/s g</sup> | U/S <sup>u/s g</sup> | U/S <sup>u/s g</sup> |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | < 1.80               | < 1.80               | < 1.80               |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | 41                   | 53                   | 78                   |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 41                   | 53                   | 78                   |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 110                  | 95                   | 110                  |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 240                  | 240                  | 210                  |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3                | < 0.3                | < 0.3                |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 39                   | 52                   | 55                   |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 1.4                  | 2.1                  | 1.6                  |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 43                   | 42                   | 40                   |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 350                  | 430                  | 460                  |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |       |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|-------|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 360   | 450   | 400   |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 360   | 450   | 400   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number: **25-056090**  
Project / Site name: **Dove Valley Park**  
Your Order No: **SC1122**

## Certificate of Analysis - Asbestos Quantification

### Methods:

#### Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

#### Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results       | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample | Analysis completed | Analyst ID |
|---------------|-----------|------------------|-------------------|---------------------------------------------------|-------------------|---------------------------------------|----------------------------|--------------------|------------|
| <b>718312</b> | C1583/149 | -                | 162               | Loose Fibres                                      | <b>Amosite</b>    | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |
| <b>718313</b> | C1583/150 | -                | 169               | Asbestos Cement                                   | <b>Chrysotile</b> | 0.023                                 | <b>0.023</b>               | 31/10/2025         | MBI        |
| <b>718314</b> | C1583/151 | -                | 189               | Loose Fibres                                      | <b>Amosite</b>    | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |
| <b>718315</b> | C1583/152 | -                | 163               | Loose Fibres, Asbestos Cement                     | <b>Chrysotile</b> | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



**Analytical Report Number : 25-056090**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|----------------|---------------|------------------------------------------------|
| 718308            | C1583/143        | Z4-L6          | None Supplied | Brown clay and sand with gravel and vegetation |
| 718309            | C1583/144        | Z8-L10         | None Supplied | Brown clay and sand with gravel                |
| 718310            | C1583/147        | AA9-L16        | None Supplied | Brown clay and sand with gravel and vegetation |
| 718311            | C1583/148        | Z9-L12         | None Supplied | Brown clay and sand with gravel                |
| 718312            | C1583/149        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718313            | C1583/150        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718314            | C1583/151        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718315            | C1583/152        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |

Analytical Report Number : 25-056090

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                    | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                                | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                | L019B         | W                  | NONE                 |
| 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.     | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                               | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                               | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                                | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                                | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                      | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                                | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                                | L019B         | W                  | NONE                 |
| 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, 2021                                         | A001B         | D                  | ISO 17025            |
| Asbestos Quantification - Gravimetric              | Asbestos quantification by gravimetric method - in house method based on references                                                                 | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft) | A006B         | D                  | ISO 17025            |

Analytical Report Number : 25-056090

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                                   | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                  | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection           | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                               | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                 | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry       | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                      | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 300C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

t: 01923 225404

e: subcontractors@earthworkstesting.co.uk  
hs@earthworkstesting.co.uk

f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-056090**

Replaces Analytical Report Number: 25-056090, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to samples 718312-315 as per client's request

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 16/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 16/10/2025 |
| <b>Your order number:</b>   | SC1122           | <b>Analysis completed by:</b>                          | 31/10/2025 |
| <b>Report Issue Number:</b> | 2                | <b>Report issued on:</b>                               | 02/11/2025 |
| <b>Samples Analysed:</b>    | 8 soil samples   |                                                        |            |

**Signed:**

Rachel Chappell  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |               |                           |                              |               |                |
|-----------------------------------------|---------------|---------------------------|------------------------------|---------------|----------------|
| Lab Sample Number                       | 718308        | 718309                    | 718310                       | 718311        | 718312         |
| Sample Reference                        | C1583/143     | C1583/144                 | C1583/147                    | C1583/148     | C1583/149      |
| Sample Number                           | Z4-L6         | Z8-L10                    | AA9-L16                      | Z9-L12        | Marl Pit - SP2 |
| Water Matrix                            | N/A           | N/A                       | N/A                          | N/A           | N/A            |
| Depth (m)                               | None Supplied | None Supplied             | None Supplied                | None Supplied | None Supplied  |
| Date Sampled                            | 15/10/2025    | 15/10/2025                | 15/10/2025                   | 15/10/2025    | 15/10/2025     |
| Time Taken                              | None Supplied | None Supplied             | None Supplied                | None Supplied | None Supplied  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Unit of<br>detection | Test Accreditation<br>Status |               |                |

|                               |    |      |      |       |       |       |       |      |
|-------------------------------|----|------|------|-------|-------|-------|-------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 18.9 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 8.3   | < 0.1 | 2.2   | 0.6   | -    |
| Moisture Content              | %  | 0.01 | NONE | 11    | 13    | 11    | 13    | 8.7  |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 1     | 0.6   | 0.9   | 1.5  |

#### Asbestos

|                                        |      |     |           |   |   |   |   |              |
|----------------------------------------|------|-----|-----------|---|---|---|---|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - | - | Detected     |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - | - | - | MBI          |
| Analysis completed                     | N/A  | N/A | N/A       | - | - | - | - | 27/10/2025   |
| Actinolite detected                    | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Amosite detected                       | Type | N/A | ISO 17025 | - | - | - | - | Detected     |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Chrysotile detected                    | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Crocidolite detected                   | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |
| Tremolite detected                     | Type | N/A | ISO 17025 | - | - | - | - | Not-detected |

|                                     |   |       |           |   |   |   |   |         |
|-------------------------------------|---|-------|-----------|---|---|---|---|---------|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | - | - | < 0.001 |
|-------------------------------------|---|-------|-----------|---|---|---|---|---------|

|                                                   |      |     |           |   |   |   |   |              |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|--------------|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | - | - | Loose Fibres |
|---------------------------------------------------|------|-----|-----------|---|---|---|---|--------------|

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |       |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.9    | 7.4    | 7.7    | 7      | -     |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      | -      | -      | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 300    | 410    | 310    | 190    | -     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.03   | 0.041  | 0.031  | 0.019  | -     |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.01   | 0.014  | 0.01   | 0.006  | -     |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 170    | 290    | 110    | 98     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 82.6   | 147    | 53     | 49     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 82.6   | 147    | 53     | 49     | -     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0055 | 0.0098 | 0.0035 | 0.0033 | -     |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360    | 880    | 370    | 230    | -     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036  | 0.088  | 0.037  | 0.023  | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 58     | 470    | 54     | 35     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.047  | 0.005  | 0.004  | -     |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 3      | 110    | 1.7    | 3.7    | -     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120    | 290    | 120    | 76     | -     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012  | 0.029  | 0.012  | 0.008  | -     |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.5    | 0.7    | 0.4    | < 0.1  | -     |

#### Total Phenols

|                            |       |   |        |   |   |   |   |       |
|----------------------------|-------|---|--------|---|---|---|---|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | - | - | < 1.0 |
|----------------------------|-------|---|--------|---|---|---|---|-------|

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |               |                            |                              |               |                |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|----------------|
| Lab Sample Number                       | 718308        | 718309                     | 718310                       | 718311        | 718312         |
| Sample Reference                        | C1583/143     | C1583/144                  | C1583/147                    | C1583/148     | C1583/149      |
| Sample Number                           | Z4-L6         | Z8-L10                     | AA9-L16                      | Z9-L12        | Marl Pit - SP2 |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A            |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Date Sampled                            | 15/10/2025    | 15/10/2025                 | 15/10/2025                   | 15/10/2025    | 15/10/2025     |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |                |

#### Speciated PAHs

|                        |       |      |           |   |   |   |   |      |
|------------------------|-------|------|-----------|---|---|---|---|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.15 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.33 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.87 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.62 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - | - | 3.9  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 33   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - | - | 28   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 13   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 13   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 16   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 7.2  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 14   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.1  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - | - | 1.6  |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.9  |

#### Total PAH

|                             |       |     |           |   |   |   |   |     |
|-----------------------------|-------|-----|-----------|---|---|---|---|-----|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | - | - | 157 |
|-----------------------------|-------|-----|-----------|---|---|---|---|-----|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |   |   |                     |
|------------------------------------|-------|------|--------|---|---|---|---|---------------------|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - | - | - | 17                  |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - | - | - | 2.1                 |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - | - | - | 2                   |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - | - | - | 1.1                 |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - | - | - | U/S <sup>mg/g</sup> |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - | - | - | U/S <sup>mg/g</sup> |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | - | - | - | - | 3.84                |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | - | - | - | - | 41                  |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 45                  |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - | - | 83                  |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - | - | 160                 |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - | - | - | 0.3                 |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - | - | 41                  |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 2.3                 |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - | - | 39                  |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - | - | 300                 |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |   |   |   |   |       |
|--------------------------------------------------------------|-------|----|-----------|---|---|---|---|-------|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | - | - | - | - | 450   |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | - | - | - | - | < 1.0 |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | - | - | - | - | 450   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |                |                            |                              |
|-----------------------------------------|----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 718313         | 718314                     | 718315                       |
| Sample Reference                        | C1583/150      | C1583/151                  | C1583/152                    |
| Sample Number                           | Marl Pit - SP2 | Marl Pit - SP2             | Marl Pit - SP2               |
| Water Matrix                            | N/A            | N/A                        | N/A                          |
| Depth (m)                               | None Supplied  | None Supplied              | None Supplied                |
| Date Sampled                            | 15/10/2025     | 15/10/2025                 | 15/10/2025                   |
| Time Taken                              | None Supplied  | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units          | Test Limit of<br>detection | Test Accreditation<br>Status |

|                               |    |      |      |      |      |      |
|-------------------------------|----|------|------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | 18.7 | 59.4 | 24.2 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -    | -    | -    |
| Moisture Content              | %  | 0.01 | NONE | 9.4  | 8.4  | 11   |
| Total mass of sample received | kg | 0.1  | NONE | 1.6  | 1.9  | 1.8  |

#### Asbestos

|                                        |      |     |           |              |              |              |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Detected     | Detected     | Detected     |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | MBI          | MBI          | MBI          |
| Analysis completed                     | N/A  | N/A | N/A       | 27/10/2025   | 27/10/2025   | 27/10/2025   |
| Actinolite detected                    | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Amosite detected                       | Type | N/A | ISO 17025 | Not-detected | Detected     | Not-detected |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Chrysotile detected                    | Type | N/A | ISO 17025 | Detected     | Not-detected | Detected     |
| Crocidolite detected                   | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |
| Tremolite detected                     | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected |

|                                     |   |       |           |       |         |         |
|-------------------------------------|---|-------|-----------|-------|---------|---------|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | 0.023 | < 0.001 | < 0.001 |
|-------------------------------------|---|-------|-----------|-------|---------|---------|

|                                                   |      |     |           |                 |              |                                  |
|---------------------------------------------------|------|-----|-----------|-----------------|--------------|----------------------------------|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | Asbestos Cement | Loose Fibres | Loose Fibres,<br>Asbestos Cement |
|---------------------------------------------------|------|-----|-----------|-----------------|--------------|----------------------------------|

#### General Inorganics

|                                                                         |          |        |        |       |       |       |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -     | -     | -     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     |

#### Total Phenols

|                            |       |   |        |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|

Analytical Report Number: 25-056090  
Project / Site name: Dove Valley Park  
Your Order No: SC1122

|                                         |                |                            |                              |
|-----------------------------------------|----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 718313         | 718314                     | 718315                       |
| Sample Reference                        | C1583/150      | C1583/151                  | C1583/152                    |
| Sample Number                           | Marl Pit - SP2 | Marl Pit - SP2             | Marl Pit - SP2               |
| Water Matrix                            | N/A            | N/A                        | N/A                          |
| Depth (m)                               | None Supplied  | None Supplied              | None Supplied                |
| Date Sampled                            | 15/10/2025     | 15/10/2025                 | 15/10/2025                   |
| Time Taken                              | None Supplied  | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units          | Test Limit of<br>detection | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |        |      |      |
|------------------------|-------|------|-----------|--------|------|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.2  | 0.12 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.25   | 0.25 | 0.22 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.7    | 2.2  | 0.9  |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.52   | 1.5  | 0.82 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 10     | 16   | 11   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 2.5    | 4    | 3.4  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 23     | 28   | 25   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 20     | 25   | 22   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 12     | 12   | 12   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 13     | 11   | 11   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 12     | 14   | 14   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 5.4    | 5.5  | 6.2  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 9.3    | 11   | 12   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 4.4    | 4.9  | 5    |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 1.1    | 1.3  | 1.3  |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 4.8    | 5.4  | 5.4  |

#### Total PAH

|                             |       |     |           |     |     |     |
|-----------------------------|-------|-----|-----------|-----|-----|-----|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 118 | 142 | 130 |
|-----------------------------|-------|-----|-----------|-----|-----|-----|

#### Heavy Metals / Metalloids

|                                    |       |      |        |                      |                      |                      |
|------------------------------------|-------|------|--------|----------------------|----------------------|----------------------|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 18                   | 18                   | 16                   |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 2.3                  | 1.8                  | 1.7                  |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.1                  | 1.5                  | 1.5                  |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 1.2                  | 1.5                  | 1.5                  |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | U/S <sup>u/s</sup> g | U/S <sup>u/s</sup> g | U/S <sup>u/s</sup> g |
| Chromium (III)                     | mg/kg | 1    | NONE   | U/S <sup>u/s</sup> g | U/S <sup>u/s</sup> g | U/S <sup>u/s</sup> g |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | < 1.80               | < 1.80               | < 1.80               |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | 41                   | 53                   | 78                   |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 41                   | 53                   | 78                   |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 110                  | 95                   | 110                  |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 240                  | 240                  | 210                  |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3                | < 0.3                | < 0.3                |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 39                   | 52                   | 55                   |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 1.4                  | 2.1                  | 1.6                  |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 43                   | 42                   | 40                   |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 350                  | 430                  | 460                  |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |       |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|-------|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 360   | 450   | 400   |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 360   | 450   | 400   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Analytical Report Number: **25-056090**  
Project / Site name: **Dove Valley Park**  
Your Order No: **SC1122**

## Certificate of Analysis - Asbestos Quantification

### Methods:

#### Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

#### Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results       | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample | Analysis completed | Analyst ID |
|---------------|-----------|------------------|-------------------|---------------------------------------------------|-------------------|---------------------------------------|----------------------------|--------------------|------------|
| <b>718312</b> | C1583/149 | -                | 162               | Loose Fibres                                      | <b>Amosite</b>    | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |
| <b>718313</b> | C1583/150 | -                | 169               | Asbestos Cement                                   | <b>Chrysotile</b> | 0.023                                 | <b>0.023</b>               | 31/10/2025         | MBI        |
| <b>718314</b> | C1583/151 | -                | 189               | Loose Fibres                                      | <b>Amosite</b>    | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |
| <b>718315</b> | C1583/152 | -                | 163               | Loose Fibres, Asbestos Cement                     | <b>Chrysotile</b> | < 0.001                               | <b>&lt; 0.001</b>          | 31/10/2025         | MBI        |

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



**Analytical Report Number : 25-056090**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|----------------|---------------|------------------------------------------------|
| 718308            | C1583/143        | Z4-L6          | None Supplied | Brown clay and sand with gravel and vegetation |
| 718309            | C1583/144        | Z8-L10         | None Supplied | Brown clay and sand with gravel                |
| 718310            | C1583/147        | AA9-L16        | None Supplied | Brown clay and sand with gravel and vegetation |
| 718311            | C1583/148        | Z9-L12         | None Supplied | Brown clay and sand with gravel                |
| 718312            | C1583/149        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718313            | C1583/150        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718314            | C1583/151        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |
| 718315            | C1583/152        | Marl Pit - SP2 | None Supplied | Brown loam and sand with gravel and stones     |

Analytical Report Number : 25-056090

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                    | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                                | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                | L019B         | W                  | NONE                 |
| 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.     | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                               | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                               | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                                | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                                | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                      | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                                | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                                | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                                | L019B         | W                  | NONE                 |
| 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, 2021                                         | A001B         | D                  | ISO 17025            |
| Asbestos Quantification - Gravimetric              | Asbestos quantification by gravimetric method - in house method based on references                                                                 | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft) | A006B         | D                  | ISO 17025            |

Analytical Report Number : 25-056090

Project / Site name: Dove Valley Park

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                                   | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                  | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection           | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                               | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                 | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry       | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                      | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 300C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23653-23661      | Contract Sample No | C1583/157-165 |
| Report Date                                                                | 29 October 2025      | ETS Contract No    | C1583/157-165 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
|                                                                            | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 16/10/2025         |               |
|                                                                            | Date Received        | 16/10/2025         |               |
|                                                                            | Date Completed       | 29/10/2025         |               |
|                                                                            | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/157-165      |               |
| Dove Valley Park                                                           |                      |                    |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

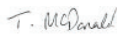
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-056537

| ETS Number | Sample Number | Location     | Material                          | Testing                       |
|------------|---------------|--------------|-----------------------------------|-------------------------------|
| ETS/23653  | 157           | Y4 Layer 1   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23654  | 158           | Y9 Layer 5   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23655  | 159           | Z10 Layer 15 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23656  | 160           | Y6 Layer 3   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23657  | 161           | Y10 Layer 2  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23658  | 162           | Y5 Layer 3   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23659  | 163           | Y8 Layer 7   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23660  | 164           | Y7 Layer 6   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23661  | 165           | Y9 Layer 8   | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |

Authorised Signatory



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-056537**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 17/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 17/10/2025 |
| <b>Your order number:</b>   | SC1127           | <b>Analysis completed by:</b>                          | 28/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 29/10/2025 |
| <b>Samples Analysed:</b>    | 9 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056537  
Project / Site name: Dove Valley Park  
Your Order No: SC1127

| Lab Sample Number                       |       |                            |                              | 720778            | 720779            | 720780              | 720781            | 720782             |
|-----------------------------------------|-------|----------------------------|------------------------------|-------------------|-------------------|---------------------|-------------------|--------------------|
| Sample Reference                        |       |                            |                              | C1583/157/Y4 - L1 | C1583/158/79 - L5 | C1583/159/Z10 - L15 | C1583/160/Y6 - L3 | C1583/161/Y10 - L2 |
| Sample Number                           |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Water Matrix                            |       |                            |                              | N/A               | N/A               | N/A                 | N/A               | N/A                |
| Depth (m)                               |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Date Sampled                            |       |                            |                              | 16/10/2025        | 16/10/2025        | 16/10/2025          | 16/10/2025        | 16/10/2025         |
| Time Taken                              |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                   |                   |                     |                   |                    |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 26.6  | 19.1  | 10.9  | 12.5  |
| Moisture Content              | %  | 0.01 | NONE | 15    | 15    | 13    | 18    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   | 0.8   | 0.9   | 0.9   | 0.8   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7      | 7.4    | 7.4    | 7.5    | 7.2    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 270    | 350    | 340    | 150    | 300    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.027  | 0.035  | 0.034  | 0.015  | 0.03   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  | 0.012  | 0.011  | 0.005  | 0.01   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 100    | 210    | 200    | 69     | 130    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 50.8   | 104    | 98.9   | 34.2   | 65.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 50.8   | 104    | 98.9   | 34.2   | 65.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0034 | 0.0069 | 0.0066 | 0.0023 | 0.0044 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 330    | 400    | 530    | 170    | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.033  | 0.04   | 0.053  | 0.017  | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 58     | 48     | 190    | 28     | 62     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.005  | 0.019  | 0.003  | 0.006  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.9    | 25     | 13     | 5.3    | 7      |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 110    | 130    | 180    | 58     | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.011  | 0.013  | 0.018  | 0.006  | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.9    | 0.6    | 0.6    | 0.6    | 0.6    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056537  
Project / Site name: Dove Valley Park  
Your Order No: SC1127

|                                         |                   |                            |                              |                   |
|-----------------------------------------|-------------------|----------------------------|------------------------------|-------------------|
| Lab Sample Number                       | 720783            | 720784                     | 720785                       | 720786            |
| Sample Reference                        | C1583/162/Y5 - L3 | C1583/163/Y8 - L7          | C1583/164/Y7 - L6            | C1583/165/Y9 - L8 |
| Sample Number                           | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Water Matrix                            | N/A               | N/A                        | N/A                          | N/A               |
| Depth (m)                               | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Date Sampled                            | 16/10/2025        | 16/10/2025                 | 16/10/2025                   | 16/10/2025        |
| Time Taken                              | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |                   |

|                               |    |      |      |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 4     | 1.2   | 36    |
| Moisture Content              | %  | 0.01 | NONE | 18    | 16    | 14    | 18    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |         |         |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|---------|---------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.2     | 6.1     | 7.1     | 7.2     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 360     | 480     | 170     | 280     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.036   | 0.048   | 0.017   | 0.028   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012   | 0.016   | 0.006   | 0.009   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150     | 140     | 73      | 99      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.1    | 68.6    | 36.5    | 49.4    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.1    | 68.6    | 36.5    | 49.4    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0049  | 0.0046  | 0.0024  | 0.0033  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360     | 470     | 180     | 280     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036   | 0.047   | 0.018   | 0.028   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | < 20    | < 20    | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.1     | 4.7     | 2.8     | 2.5     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120     | 160     | 60      | 93      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012   | 0.016   | 0.006   | 0.009   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6     | 0.7     | 0.6     | 0.2     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-056537**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 720778            | 1583/157/Y4 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720779            | 1583/158/79 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720780            | 583/159/Z10 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720781            | 1583/160/Y6 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720782            | 1583/161/Y10 - L | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720783            | 1583/162/Y5 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720784            | 1583/163/Y8 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720785            | 1583/164/Y7 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720786            | 1583/165/Y9 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |

**Analytical Report Number : 25-056537**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

**t:** 01923 225404  
**f:** 01923 237404  
**e:** info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-056537**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 17/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 17/10/2025 |
| <b>Your order number:</b>   | SC1127           | <b>Analysis completed by:</b>                          | 28/10/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 29/10/2025 |
| <b>Samples Analysed:</b>    | 9 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-056537  
Project / Site name: Dove Valley Park  
Your Order No: SC1127

| Lab Sample Number                       |       |                            |                              | 720778            | 720779            | 720780              | 720781            | 720782             |
|-----------------------------------------|-------|----------------------------|------------------------------|-------------------|-------------------|---------------------|-------------------|--------------------|
| Sample Reference                        |       |                            |                              | C1583/157/Y4 - L1 | C1583/158/79 - L5 | C1583/159/Z10 - L15 | C1583/160/Y6 - L3 | C1583/161/Y10 - L2 |
| Sample Number                           |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Water Matrix                            |       |                            |                              | N/A               | N/A               | N/A                 | N/A               | N/A                |
| Depth (m)                               |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Date Sampled                            |       |                            |                              | 16/10/2025        | 16/10/2025        | 16/10/2025          | 16/10/2025        | 16/10/2025         |
| Time Taken                              |       |                            |                              | None Supplied     | None Supplied     | None Supplied       | None Supplied     | None Supplied      |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                   |                   |                     |                   |                    |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 26.6  | 19.1  | 10.9  | 12.5  |
| Moisture Content              | %  | 0.01 | NONE | 15    | 15    | 13    | 18    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8   | 0.8   | 0.9   | 0.9   | 0.8   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7      | 7.4    | 7.4    | 7.5    | 7.2    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 270    | 350    | 340    | 150    | 300    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.027  | 0.035  | 0.034  | 0.015  | 0.03   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.009  | 0.012  | 0.011  | 0.005  | 0.01   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 100    | 210    | 200    | 69     | 130    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 50.8   | 104    | 98.9   | 34.2   | 65.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 50.8   | 104    | 98.9   | 34.2   | 65.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0034 | 0.0069 | 0.0066 | 0.0023 | 0.0044 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 330    | 400    | 530    | 170    | 360    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.033  | 0.04   | 0.053  | 0.017  | 0.036  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 58     | 48     | 190    | 28     | 62     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.006  | 0.005  | 0.019  | 0.003  | 0.006  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.9    | 25     | 13     | 5.3    | 7      |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 110    | 130    | 180    | 58     | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.011  | 0.013  | 0.018  | 0.006  | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.9    | 0.6    | 0.6    | 0.6    | 0.6    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-056537  
Project / Site name: Dove Valley Park  
Your Order No: SC1127

|                                         |                   |                            |                              |                   |
|-----------------------------------------|-------------------|----------------------------|------------------------------|-------------------|
| Lab Sample Number                       | 720783            | 720784                     | 720785                       | 720786            |
| Sample Reference                        | C1583/162/Y5 - L3 | C1583/163/Y8 - L7          | C1583/164/Y7 - L6            | C1583/165/Y9 - L8 |
| Sample Number                           | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Water Matrix                            | N/A               | N/A                        | N/A                          | N/A               |
| Depth (m)                               | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Date Sampled                            | 16/10/2025        | 16/10/2025                 | 16/10/2025                   | 16/10/2025        |
| Time Taken                              | None Supplied     | None Supplied              | None Supplied                | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of<br>detection | Test Accreditation<br>Status |                   |

|                               |    |      |      |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 | 4     | 1.2   | 36    |
| Moisture Content              | %  | 0.01 | NONE | 18    | 16    | 14    | 18    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 0.9   | 0.9   | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |         |         |         |         |
|-------------------------------------------------------------------------|----------|--------|--------|---------|---------|---------|---------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 6.2     | 6.1     | 7.1     | 7.2     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 360     | 480     | 170     | 280     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.036   | 0.048   | 0.017   | 0.028   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012   | 0.016   | 0.006   | 0.009   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 150     | 140     | 73      | 99      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 74.1    | 68.6    | 36.5    | 49.4    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 74.1    | 68.6    | 36.5    | 49.4    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0049  | 0.0046  | 0.0024  | 0.0033  |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 360     | 470     | 180     | 280     |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.036   | 0.047   | 0.018   | 0.028   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | < 20    | < 20    | < 20    | < 20    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 5.1     | 4.7     | 2.8     | 2.5     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 120     | 160     | 60      | 93      |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.012   | 0.016   | 0.006   | 0.009   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6     | 0.7     | 0.6     | 0.2     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-056537**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 720778            | 1583/157/Y4 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720779            | 1583/158/79 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720780            | 583/159/Z10 - L  | None Supplied | None Supplied | Brown clay and sand with gravel and vegetation |
| 720781            | 1583/160/Y6 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720782            | 1583/161/Y10 - L | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720783            | 1583/162/Y5 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720784            | 1583/163/Y8 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720785            | 1583/164/Y7 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 720786            | 1583/165/Y9 - L  | None Supplied | None Supplied | Brown clay and sand with gravel                |

**Analytical Report Number : 25-056537**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23711-23716      | Contract Sample No | C1583/169-174 |
| Report Date                                                                | 05 November 2025     | ETS Contract No    | C1583/169-174 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
|                                                                            | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 17/10/2025         |               |
|                                                                            | Date Received        | 17/10/2025         |               |
|                                                                            | Date Completed       | 04/11/2025         |               |
| Dove Valley Park                                                           | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/169-174      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

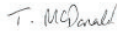
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-057028

| ETS Number | Sample Number | Location    | Material                          | Testing                       |
|------------|---------------|-------------|-----------------------------------|-------------------------------|
| ETS/23711  | 169           | X4 Layer 2  | Sand & Gravel (Class 6)           | TRL 447, OM                   |
| ETS/23712  | 170           | Y10 Layer 5 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23713  | 171           | Y9 Layer 12 | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23714  | 172           | X8 Layer 1  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23715  | 173           | X7 Layer 3  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23716  | 174           | X8 Layer 4  | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION |

Authorised Signatory





Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-057028**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 21/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 21/10/2025 |
| <b>Your order number:</b>   | SC1137           | <b>Analysis completed by:</b>                          | 04/11/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 04/11/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-057028  
Project / Site name: Dove Valley Park  
Your Order No: SC1137

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 723481        | 723482                     | 723483                       | 723484        | 723485        |
| Sample Reference                        | C1583/169     | C1583/170                  | C1583/171                    | C1583/172     | C1583/173     |
| Sample Number                           | X4-L2         | Y10-L5                     | Y9-L12                       | X8-L1         | X7-L3         |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 17/10/2025    | 17/10/2025                 | 17/10/2025                   | 17/10/2025    | 17/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |      |       |       |       |       |
|-------------------------------|----|------|------|------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 70.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 84.8 | 2.3   | < 0.1 | 7.4   | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 3.4  | 14    | 14    | 18    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8  | 1     | 1     | 1     | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.5    | 7      | 7.1    | 7.1    | 6.6    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 170    | 320    | 230    | 320    | 340    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.017  | 0.032  | 0.023  | 0.032  | 0.034  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.006  | 0.011  | 0.008  | 0.011  | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 53     | 150    | 55     | 130    | 14     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 26.7   | 73.4   | 27.5   | 66.9   | 293    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 26.7   | 73.4   | 27.5   | 66.9   | 293    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0018 | 0.0049 | 0.0018 | 0.0045 | 0.0195 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 830    | 810    | 460    | 670    | 690    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.083  | 0.081  | 0.046  | 0.067  | 0.069  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 650    | 490    | 230    | 350    | 350    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.065  | 0.049  | 0.023  | 0.035  | 0.035  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -      | 43     | 5.4    | 18     | 14     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 280    | 270    | 150    | 220    | 230    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.028  | 0.027  | 0.015  | 0.022  | 0.023  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.4    | 0.2    | 0.4    | 0.7    | 0.4    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057028  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1137

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 723486        |                            |                              |  |
| Sample Reference                        | C1583/174     |                            |                              |  |
| Sample Number                           | X8-L4         |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 17/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 16    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |       |
|-------------------------------------------------------------------------|----------|--------|--------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 370   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.037 |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 60    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 29.9  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 29.9  |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.002 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 840   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.084 |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 470   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.047 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 19    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 280   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.028 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-057028**

**Project / Site name: Dove Valley Park**

\* 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 *              |
|-------------------|------------------|---------------|---------------|-----------------------------------|
| 723481            | C1583/169        | X4-L2         | None Supplied | Brown sand with gravel and stones |
| 723482            | C1583/170        | Y10-L5        | None Supplied | Brown clay and sand with gravel   |
| 723483            | C1583/171        | Y9-L12        | None Supplied | Brown clay and sand with gravel   |
| 723484            | C1583/172        | X8-L1         | None Supplied | Brown clay and sand with gravel   |
| 723485            | C1583/173        | X7-L3         | None Supplied | Brown clay and sand with gravel   |
| 723486            | C1583/174        | X8-L4         | None Supplied | Brown clay and sand with gravel   |

Analytical Report Number : 25-057028

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | D                  | MCERTS               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

t: 01923 225404  
f: 01923 237404  
e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-057028**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 21/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 21/10/2025 |
| <b>Your order number:</b>   | SC1137           | <b>Analysis completed by:</b>                          | 04/11/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 04/11/2025 |
| <b>Samples Analysed:</b>    | 6 soil samples   |                                                        |            |

**Signed:**

Charlotte Andrew  
Key Account Manager  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-057028  
Project / Site name: Dove Valley Park  
Your Order No: SC1137

|                                         |               |                            |                              |               |               |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number                       | 723481        | 723482                     | 723483                       | 723484        | 723485        |
| Sample Reference                        | C1583/169     | C1583/170                  | C1583/171                    | C1583/172     | C1583/173     |
| Sample Number                           | X4-L2         | Y10-L5                     | Y9-L12                       | X8-L1         | X7-L3         |
| Water Matrix                            | N/A           | N/A                        | N/A                          | N/A           | N/A           |
| Depth (m)                               | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Date Sampled                            | 17/10/2025    | 17/10/2025                 | 17/10/2025                   | 17/10/2025    | 17/10/2025    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |      |       |       |       |       |
|-------------------------------|----|------|------|------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 70.8 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 84.8 | 2.3   | < 0.1 | 7.4   | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 3.4  | 14    | 14    | 18    | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 0.8  | 1     | 1     | 1     | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.5    | 7      | 7.1    | 7.1    | 6.6    |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 170    | 320    | 230    | 320    | 340    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.017  | 0.032  | 0.023  | 0.032  | 0.034  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.006  | 0.011  | 0.008  | 0.011  | 0.011  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 53     | 150    | 55     | 130    | 14     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1) Leachate Equivalent | mg/l     | 1.25   | MCERTS | 26.7   | 73.4   | 27.5   | 66.9   | 293    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 26.7   | 73.4   | 27.5   | 66.9   | 293    |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0018 | 0.0049 | 0.0018 | 0.0045 | 0.0195 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 830    | 810    | 460    | 670    | 690    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.083  | 0.081  | 0.046  | 0.067  | 0.069  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 650    | 490    | 230    | 350    | 350    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.065  | 0.049  | 0.023  | 0.035  | 0.035  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -      | 43     | 5.4    | 18     | 14     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 280    | 270    | 150    | 220    | 230    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.028  | 0.027  | 0.015  | 0.022  | 0.023  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.4    | 0.2    | 0.4    | 0.7    | 0.4    |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057028

Project / Site name: Dove Valley Park

Your Order No: SC1137

|                                         |               |                            |                              |  |
|-----------------------------------------|---------------|----------------------------|------------------------------|--|
| Lab Sample Number                       | 723486        |                            |                              |  |
| Sample Reference                        | C1583/174     |                            |                              |  |
| Sample Number                           | X8-L4         |                            |                              |  |
| Water Matrix                            | N/A           |                            |                              |  |
| Depth (m)                               | None Supplied |                            |                              |  |
| Date Sampled                            | 17/10/2025    |                            |                              |  |
| Time Taken                              | None Supplied |                            |                              |  |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |  |

|                               |    |      |      |       |
|-------------------------------|----|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 16    |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   |

#### General Inorganics

|                                                                         |          |        |        |       |
|-------------------------------------------------------------------------|----------|--------|--------|-------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7     |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 370   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.037 |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.012 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 60    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 29.9  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 29.9  |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.002 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 840   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.084 |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 470   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.047 |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 19    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 280   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.028 |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.3   |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



**Analytical Report Number : 25-057028**

**Project / Site name: Dove Valley Park**

\* 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 *              |
|-------------------|------------------|---------------|---------------|-----------------------------------|
| 723481            | C1583/169        | X4-L2         | None Supplied | Brown sand with gravel and stones |
| 723482            | C1583/170        | Y10-L5        | None Supplied | Brown clay and sand with gravel   |
| 723483            | C1583/171        | Y9-L12        | None Supplied | Brown clay and sand with gravel   |
| 723484            | C1583/172        | X8-L1         | None Supplied | Brown clay and sand with gravel   |
| 723485            | C1583/173        | X7-L3         | None Supplied | Brown clay and sand with gravel   |
| 723486            | C1583/174        | X8-L4         | None Supplied | Brown clay and sand with gravel   |

Analytical Report Number : 25-057028

Project / Site name: Dove Valley Park

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | D                  | MCERTS               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



## TEST CERTIFICATE

### DETERMINATION OF RESISTANCE TO FRAGMENTATION BY THE LOS ANGELES TEST METHOD

Tested in Accordance with: BS EN 1097-2:2020



**Normec**  
i2 Analytical

4041

Client: Earthworks Testing Ltd  
Client Address: Unit 6, Eco Way, Dunscroft,  
Doncaster, DN7 4JJ

Contact: Helen Slinn  
Site Address: Dove Valley Park

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

Client Reference: C1583  
Job Number: 25-056819-1  
Date Sampled: 17/10/2025  
Date Received: 21/10/2025  
Date Tested: 06/11/2025  
Sampled By: Client - ETL

#### Test Results:

Laboratory Reference: 722001  
Client ID: C1583/169/X4-L2  
Sample Reference: Class 6  
Sample Description: Brown very sandy GRAVEL

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

| Size Fraction which test portion obtained |                 | Specification % |
|-------------------------------------------|-----------------|-----------------|
| Sieve Size                                | Percent Passing |                 |
| 14.0 mm                                   | 100             | 100             |
| 11.2 mm                                   | 36              | 30-40           |
| 10.0 mm                                   | 0               | Zero            |
| Los Angeles Coefficient                   | 19              |                 |

This sample meets the requirements for material type - 6F2

Specification for Highway Works, Volume 1, Series 600, TABLE 6/1

#### Remarks:

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. Unless otherwise instructed, decision rules to determine conformity will be based on Simple Acceptance, which is a decision rule in which the acceptance limit is the same as the tolerance limit; resulting in a binary Pass or Fail being reported. This is in accordance with ILAC G8 "Guidelines on Decision Rules and Statements of Conformity"

#### Signed:

Page 1 of 1

Katarzyna Koziel  
Geotechnical Reporting Team Leader  
for and on behalf of i2 Analytical Ltd

Date Reported: 11/11/2025

GF 143.17

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23856-23868      | Contract Sample No | C1583/179-191 |
| Report Date                                                                | 05 November 2025     | ETS Contract No    | C1583/179-191 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
| Dove Valley Park                                                           | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 21/10/2025         |               |
|                                                                            | Date Received        | 21/10/2025         |               |
|                                                                            | Date Completed       | 04/11/2025         |               |
|                                                                            | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/179-191      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

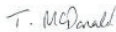
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-057576-9

| ETS Number | Sample Number | Location     | Material                                    | Testing                       |
|------------|---------------|--------------|---------------------------------------------|-------------------------------|
| ETS/23653  | 179           | Marl Pit SP3 | Brown Sandy Clay W/F-M Gravel               | Site Specific Chemical Suite  |
| ETS/23654  | 180           | Marl Pit SP3 | Brown Sandy Clay W/F-M Gravel               | Site Specific Chemical Suite  |
| ETS/23655  | 181           | Marl Pit SP2 | Brown Sandy Clay W/F-M Gravel               | Site Specific Chemical Suite  |
| ETS/23656  | 184           | Z7 Layer 11  | Sand & Gravel (Class 6)                     | TRL 447, OM                   |
| ETS/23657  | 186           | Y4 Layer 4   | Brown Clay W/F-M Gravel + 2% Lime (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23658  | 187           | X7 Layer 5   | Brown Clay W/F-M Gravel + 2% Lime (Class 7) | TRL 447, OM, PH, Chloride ION |
| ETS/23659  | 190           | Z5 Layer 8   | Brown Clay W/F-M Gravel (Class 7)           | TRL 447, OM, PH, Chloride ION |
| ETS/23660  | 191           | Z9 Layer 16  | Brown Clay W/F-M Gravel (Class 7)           | TRL 447, OM, PH, Chloride ION |

Authorised Signatory



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-057579**

|                             |                        |                                                        |            |
|-----------------------------|------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Nerthefield Lane Derby | <b>Samples received on:</b>                            | 23/10/2025 |
| <b>Your job number:</b>     | C1583                  | <b>Samples instructed on/<br/>Analysis started on:</b> | 23/10/2025 |
| <b>Your order number:</b>   | SC1149                 | <b>Analysis completed by:</b>                          | 04/11/2025 |
| <b>Report Issue Number:</b> | 1                      | <b>Report issued on:</b>                               | 04/11/2025 |
| <b>Samples Analysed:</b>    | 8 soil samples         |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |       |                         |                           | 726591                 | 726592                 | 726593                 | 726594           | 726595          |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------|------------------------|------------------------|------------------|-----------------|
| Sample Reference                        |       |                         |                           | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3 | C1583/181/Marl Pit SP3 | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Water Matrix                            |       |                         |                           | N/A                    | N/A                    | N/A                    | N/A              | N/A             |
| Depth (m)                               |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Date Sampled                            |       |                         |                           | 21/10/2025             | 21/10/2025             | 21/10/2025             | 22/10/2025       | 22/10/2025      |
| Time Taken                              |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                        |                        |                        |                  |                 |

|                               |    |      |      |       |       |      |      |      |
|-------------------------------|----|------|------|-------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 52.2 | 25.9 | 19.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -    | 54   | 28.3 |
| Moisture Content              | %  | 0.01 | NONE | 15    | 16    | 11   | 4.6  | 5.3  |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 1.4   | 1.2  | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DSA          | DSA          | DSA          | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 03/11/2025   | 03/11/2025   | 03/11/2025   | - | - |

#### General Inorganics

|                                                                         |          |        |        |       |       |       |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | 7.7    | 9.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | 180    | 220    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | 0.018  | 0.022  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | 0.006  | 0.007  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | 42     | 62     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | 0.0014 | 0.0021 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | 270    | 290    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | 0.027  | 0.029  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | 91     | 77     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | 0.009  | 0.008  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | -     | -     | -     | -      | 11     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | 89     | 98     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | 0.009  | 0.01   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | 0.9    | 0.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |   |   |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | - | - |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |  |  |  | 726591                 | 726592                  | 726593                    | 726594           | 726595          |
|-----------------------------------------|--|--|--|------------------------|-------------------------|---------------------------|------------------|-----------------|
| Sample Reference                        |  |  |  | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3  | C1583/181/Marl Pit SP3    | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |  |  |  | None Supplied          | None Supplied           | None Supplied             | None Supplied    | None Supplied   |
| Water Matrix                            |  |  |  | N/A                    | N/A                     | N/A                       | N/A              | N/A             |
| Depth (m)                               |  |  |  | None Supplied          | None Supplied           | None Supplied             | None Supplied    | None Supplied   |
| Date Sampled                            |  |  |  | 21/10/2025             | 21/10/2025              | 21/10/2025                | 22/10/2025       | 22/10/2025      |
| Time Taken                              |  |  |  | None Supplied          | None Supplied           | None Supplied             | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units                  | Test Limit of detection | Test Accreditation Status |                  |                 |

#### Speciated PAHs

|                        |       |      |           |        |        |        |   |   |
|------------------------|-------|------|-----------|--------|--------|--------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.22   | 0.06   | < 0.05 | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.82   | 0.16   | 0.3    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.66   | 0.12   | 0.21   | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 8.1    | 2.1    | 3.5    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 2.8    | 0.54   | 0.99   | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 13     | 5.3    | 6.1    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 12     | 4.8    | 5.4    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 6.3    | 2.5    | 2.4    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 5.8    | 2.4    | 2.5    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 7.1    | 3.2    | 3.1    | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.3    | 1.4    | 1.1    | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 5.9    | 2.8    | 2.4    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 2.5    | 1.3    | 1.2    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.56   | 0.27   | 0.22   | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 2.7    | 1.6    | 1.3    | - | - |

#### Total PAH

|                             |       |     |           |    |      |      |   |   |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 71 | 28.5 | 30.7 | - | - |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |       |       |   |   |
|------------------------------------|-------|------|--------|-------|-------|-------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 8.6   | 7     | 6.1   | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 1.2   | 0.95  | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.1   | 1.2   | 1.1   | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.3   | 0.3   | 0.2   | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | < 1.8 | < 1.8 | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 29    | 33    | 28    | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 29    | 33    | 28    | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 22    | 28    | 21    | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 43    | 41    | 33    | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3 | < 0.3 | < 0.3 | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 20    | 23    | 19    | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 1.9   | 1.2   | 1.3   | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 35    | 38    | 30    | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 90    | 120   | 84    | - | - |

#### Petroleum Hydrocarbons

|                                         |       |    |      |     |    |    |   |   |
|-----------------------------------------|-------|----|------|-----|----|----|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_1D_TOTAL | mg/kg | 10 | NONE | 110 | 56 | 50 | - | - |
|-----------------------------------------|-------|----|------|-----|----|----|---|---|

|                                                   |       |    |           |       |       |       |   |   |
|---------------------------------------------------|-------|----|-----------|-------|-------|-------|---|---|
| Petroleum Range Organics (EC6 - EC10) HS_1D_TOTAL | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | - | - |
| TPH (EC10 - EC40) EH_CU_1D_TOTAL                  | mg/kg | 10 | MCERTS    | 110   | 56    | 50    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

|                                         |                 |                            |                              |                 |                  |
|-----------------------------------------|-----------------|----------------------------|------------------------------|-----------------|------------------|
| Lab Sample Number                       | 726596          |                            |                              | 726597          | 726598           |
| Sample Reference                        | C1583/187/X7 L5 |                            |                              | C1583/190/25 L8 | C1583/191/29 L16 |
| Sample Number                           | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Water Matrix                            | N/A             |                            |                              | N/A             | N/A              |
| Depth (m)                               | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Date Sampled                            | 22/10/2025      |                            |                              | 22/10/2025      | 22/10/2025       |
| Time Taken                              | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection | Test Accreditation<br>Status |                 |                  |

|                               |    |      |      |      |      |       |
|-------------------------------|----|------|------|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | 35.1 | 25.4 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 42.8 | 29.7 | 27.8  |
| Moisture Content              | %  | 0.01 | NONE | 6.9  | 12   | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 1.3  | 1.2  | 1.5   |

#### Asbestos

|                                        |      |     |           |   |   |   |
|----------------------------------------|------|-----|-----------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - | - |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 8.9    | 7.1    | 6.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 210    | 190    | 280    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.021  | 0.019  | 0.028  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.007  | 0.006  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 75     | 85     | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0025 | 0.0028 | 0.0047 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 260    | 230    | 370    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.026  | 0.023  | 0.037  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 52     | 41     | 90     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.005  | 0.004  | 0.009  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 8      | 14     | 17     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 87     | 77     | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.009  | 0.008  | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6    | 0.6    | 0.7    |

#### Total Phenols

|                            |       |   |        |   |   |   |
|----------------------------|-------|---|--------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | - |
|----------------------------|-------|---|--------|---|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheifield Lane Derby  
Your Order No: SC1149

|                                         |                 |                            |                              |
|-----------------------------------------|-----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 726596          | 726597                     | 726598                       |
| Sample Reference                        | C1583/187/X7 L5 | C1583/190/25 L8            | C1583/191/29 L16             |
| Sample Number                           | None Supplied   | None Supplied              | None Supplied                |
| Water Matrix                            | N/A             | N/A                        | N/A                          |
| Depth (m)                               | None Supplied   | None Supplied              | None Supplied                |
| Date Sampled                            | 22/10/2025      | 22/10/2025                 | 22/10/2025                   |
| Time Taken                              | None Supplied   | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |   |   |   |
|------------------------|-------|------|-----------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - |

#### Total PAH

|                             |       |     |           |   |   |   |
|-----------------------------|-------|-----|-----------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | - |
|-----------------------------|-------|-----|-----------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |   |
|------------------------------------|-------|------|--------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |

#### Petroleum Hydrocarbons

|                                         |       |    |      |   |   |   |
|-----------------------------------------|-------|----|------|---|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_1D_TOTAL | mg/kg | 10 | NONE | - | - | - |
|-----------------------------------------|-------|----|------|---|---|---|

|                                                   |       |    |           |   |   |   |
|---------------------------------------------------|-------|----|-----------|---|---|---|
| Petroleum Range Organics (EC6 - EC10) HS_1D_TOTAL | mg/kg | 1  | ISO 17025 | - | - | - |
| TPH (EC10 - EC40) EH_CU_1D_TOTAL                  | mg/kg | 10 | MCERTS    | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 726591            | 83/179/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726592            | 83/180/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726593            | 83/181/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 726594            | 1583/184/27 L1   | None Supplied | None Supplied | Brown sand with gravel and stones              |
| 726595            | C1583/186/Y4 L4  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726596            | C1583/187/X7 L5  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726597            | C1583/190/25 L8  | None Supplied | None Supplied | Brown clay with gravel and stones              |
| 726598            | 1583/191/29 L1   | None Supplied | None Supplied | Brown clay with gravel                         |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheifield Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                                           | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                                                       | L038B         | D                  | NONE                 |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | 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               |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | D                  | MCERTS               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-057579**

|                             |                        |                                                        |            |
|-----------------------------|------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Nerthefield Lane Derby | <b>Samples received on:</b>                            | 23/10/2025 |
| <b>Your job number:</b>     | C1583                  | <b>Samples instructed on/<br/>Analysis started on:</b> | 23/10/2025 |
| <b>Your order number:</b>   | SC1149                 | <b>Analysis completed by:</b>                          | 04/11/2025 |
| <b>Report Issue Number:</b> | 1                      | <b>Report issued on:</b>                               | 04/11/2025 |
| <b>Samples Analysed:</b>    | 8 soil samples         |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |       |                         |                           | 726591                 | 726592                 | 726593                 | 726594           | 726595          |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------|------------------------|------------------------|------------------|-----------------|
| Sample Reference                        |       |                         |                           | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3 | C1583/181/Marl Pit SP3 | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Water Matrix                            |       |                         |                           | N/A                    | N/A                    | N/A                    | N/A              | N/A             |
| Depth (m)                               |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Date Sampled                            |       |                         |                           | 21/10/2025             | 21/10/2025             | 21/10/2025             | 22/10/2025       | 22/10/2025      |
| Time Taken                              |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                        |                        |                        |                  |                 |

|                               |    |      |      |       |       |      |      |      |
|-------------------------------|----|------|------|-------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 52.2 | 25.9 | 19.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -    | 54   | 28.3 |
| Moisture Content              | %  | 0.01 | NONE | 15    | 16    | 11   | 4.6  | 5.3  |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 1.4   | 1.2  | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DSA          | DSA          | DSA          | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 03/11/2025   | 03/11/2025   | 03/11/2025   | - | - |

#### General Inorganics

|                                                                         |          |        |        |       |       |       |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | 7.7    | 9.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | 180    | 220    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | 0.018  | 0.022  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | 0.006  | 0.007  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | 42     | 62     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | 0.0014 | 0.0021 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | 270    | 290    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | 0.027  | 0.029  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | 91     | 77     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | 0.009  | 0.008  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | -     | -     | -     | -      | 11     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | 89     | 98     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | 0.009  | 0.01   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | 0.9    | 0.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |   |   |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | - | - |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |       |                            |                              | 726591                 | 726592                 | 726593                 | 726594           | 726595          |
|-----------------------------------------|-------|----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------|-----------------|
| Sample Reference                        |       |                            |                              | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3 | C1583/181/Marl Pit SP3 | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Water Matrix                            |       |                            |                              | N/A                    | N/A                    | N/A                    | N/A              | N/A             |
| Depth (m)                               |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Date Sampled                            |       |                            |                              | 21/10/2025             | 21/10/2025             | 21/10/2025             | 22/10/2025       | 22/10/2025      |
| Time Taken                              |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                        |                        |                        |                  |                 |

#### Speciated PAHs

|                        |       |      |           |        |        |        |   |   |
|------------------------|-------|------|-----------|--------|--------|--------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.22   | 0.06   | < 0.05 | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.82   | 0.16   | 0.3    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.66   | 0.12   | 0.21   | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 8.1    | 2.1    | 3.5    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 2.8    | 0.54   | 0.99   | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 13     | 5.3    | 6.1    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 12     | 4.8    | 5.4    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 6.3    | 2.5    | 2.4    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 5.8    | 2.4    | 2.5    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 7.1    | 3.2    | 3.1    | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.3    | 1.4    | 1.1    | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 5.9    | 2.8    | 2.4    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 2.5    | 1.3    | 1.2    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.56   | 0.27   | 0.22   | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 2.7    | 1.6    | 1.3    | - | - |

#### Total PAH

|                             |       |     |           |    |      |      |   |   |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 71 | 28.5 | 30.7 | - | - |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |       |       |   |   |
|------------------------------------|-------|------|--------|-------|-------|-------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 8.6   | 7     | 6.1   | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 1.2   | 0.95  | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.1   | 1.2   | 1.1   | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.3   | 0.3   | 0.2   | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | < 1.8 | < 1.8 | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 29    | 33    | 28    | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 29    | 33    | 28    | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 22    | 28    | 21    | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 43    | 41    | 33    | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3 | < 0.3 | < 0.3 | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 20    | 23    | 19    | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 1.9   | 1.2   | 1.3   | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 35    | 38    | 30    | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 90    | 120   | 84    | - | - |

#### Petroleum Hydrocarbons

|                                                   |       |    |           |       |       |       |   |   |
|---------------------------------------------------|-------|----|-----------|-------|-------|-------|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL           | mg/kg | 10 | NONE      | 110   | 56    | 50    | - | - |
| Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | - | - |
| TPH (EC10 - EC40) EH_CU_ID_TOTAL                  | mg/kg | 10 | MCERTS    | 110   | 56    | 50    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

|                                         |                 |                            |                              |                 |                  |
|-----------------------------------------|-----------------|----------------------------|------------------------------|-----------------|------------------|
| Lab Sample Number                       | 726596          |                            |                              | 726597          | 726598           |
| Sample Reference                        | C1583/187/X7 L5 |                            |                              | C1583/190/25 L8 | C1583/191/29 L16 |
| Sample Number                           | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Water Matrix                            | N/A             |                            |                              | N/A             | N/A              |
| Depth (m)                               | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Date Sampled                            | 22/10/2025      |                            |                              | 22/10/2025      | 22/10/2025       |
| Time Taken                              | None Supplied   |                            |                              | None Supplied   | None Supplied    |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection | Test Accreditation<br>Status |                 |                  |

|                               |    |      |      |      |      |       |
|-------------------------------|----|------|------|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | 35.1 | 25.4 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 42.8 | 29.7 | 27.8  |
| Moisture Content              | %  | 0.01 | NONE | 6.9  | 12   | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 1.3  | 1.2  | 1.5   |

#### Asbestos

|                                        |      |     |           |   |   |   |
|----------------------------------------|------|-----|-----------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - | - |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 8.9    | 7.1    | 6.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 210    | 190    | 280    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.021  | 0.019  | 0.028  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.007  | 0.006  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 75     | 85     | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0025 | 0.0028 | 0.0047 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 260    | 230    | 370    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.026  | 0.023  | 0.037  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 52     | 41     | 90     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.005  | 0.004  | 0.009  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 8      | 14     | 17     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 87     | 77     | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.009  | 0.008  | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6    | 0.6    | 0.7    |

#### Total Phenols

|                            |       |   |        |   |   |   |
|----------------------------|-------|---|--------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | - |
|----------------------------|-------|---|--------|---|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

|                                         |                 |                            |                              |
|-----------------------------------------|-----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 726596          | 726597                     | 726598                       |
| Sample Reference                        | C1583/187/X7 L5 | C1583/190/25 L8            | C1583/191/29 L16             |
| Sample Number                           | None Supplied   | None Supplied              | None Supplied                |
| Water Matrix                            | N/A             | N/A                        | N/A                          |
| Depth (m)                               | None Supplied   | None Supplied              | None Supplied                |
| Date Sampled                            | 22/10/2025      | 22/10/2025                 | 22/10/2025                   |
| Time Taken                              | None Supplied   | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |   |   |   |
|------------------------|-------|------|-----------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - |

#### Total PAH

|                             |       |     |           |   |   |   |
|-----------------------------|-------|-----|-----------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | - |
|-----------------------------|-------|-----|-----------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |   |
|------------------------------------|-------|------|--------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |

#### Petroleum Hydrocarbons

|                                         |       |    |      |   |   |   |
|-----------------------------------------|-------|----|------|---|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_1D_TOTAL | mg/kg | 10 | NONE | - | - | - |
|-----------------------------------------|-------|----|------|---|---|---|

|                                                   |       |    |           |   |   |   |
|---------------------------------------------------|-------|----|-----------|---|---|---|
| Petroleum Range Organics (EC6 - EC10) HS_1D_TOTAL | mg/kg | 1  | ISO 17025 | - | - | - |
| TPH (EC10 - EC40) EH_CU_1D_TOTAL                  | mg/kg | 10 | MCERTS    | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 726591            | 83/179/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726592            | 83/180/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726593            | 83/181/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 726594            | 1583/184/27 L1   | None Supplied | None Supplied | Brown sand with gravel and stones              |
| 726595            | C1583/186/Y4 L4  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726596            | C1583/187/X7 L5  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726597            | C1583/190/25 L8  | None Supplied | None Supplied | Brown clay with gravel and stones              |
| 726598            | 1583/191/29 L1   | None Supplied | None Supplied | Brown clay with gravel                         |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheifield Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                                           | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                                                       | L038B         | D                  | NONE                 |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | 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               |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | D                  | MCERTS               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-057579**

|                             |                        |                                                        |            |
|-----------------------------|------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Nerthefield Lane Derby | <b>Samples received on:</b>                            | 23/10/2025 |
| <b>Your job number:</b>     | C1583                  | <b>Samples instructed on/<br/>Analysis started on:</b> | 23/10/2025 |
| <b>Your order number:</b>   | SC1149                 | <b>Analysis completed by:</b>                          | 04/11/2025 |
| <b>Report Issue Number:</b> | 1                      | <b>Report issued on:</b>                               | 04/11/2025 |
| <b>Samples Analysed:</b>    | 8 soil samples         |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |       |                         |                           | 726591                 | 726592                 | 726593                 | 726594           | 726595          |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------|------------------------|------------------------|------------------|-----------------|
| Sample Reference                        |       |                         |                           | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3 | C1583/181/Marl Pit SP3 | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Water Matrix                            |       |                         |                           | N/A                    | N/A                    | N/A                    | N/A              | N/A             |
| Depth (m)                               |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Date Sampled                            |       |                         |                           | 21/10/2025             | 21/10/2025             | 21/10/2025             | 22/10/2025       | 22/10/2025      |
| Time Taken                              |       |                         |                           | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                        |                        |                        |                  |                 |

|                               |    |      |      |       |       |      |      |      |
|-------------------------------|----|------|------|-------|-------|------|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 52.2 | 25.9 | 19.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -    | 54   | 28.3 |
| Moisture Content              | %  | 0.01 | NONE | 15    | 16    | 11   | 4.6  | 5.3  |
| Total mass of sample received | kg | 0.1  | NONE | 0.9   | 1.4   | 1.2  | 1    | 0.9  |

#### Asbestos

|                                        |      |     |           |              |              |              |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DSA          | DSA          | DSA          | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 03/11/2025   | 03/11/2025   | 03/11/2025   | - | - |

#### General Inorganics

|                                                                         |          |        |        |       |       |       |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|-------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | -     | 7.7    | 9.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | < 1.0 | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | -     | 180    | 220    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | -     | 0.018  | 0.022  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | -     | 0.006  | 0.007  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | -     | 42     | 62     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | -     | 21     | 30.9   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | -     | 0.0014 | 0.0021 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | -     | 270    | 290    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | -     | 0.027  | 0.029  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | -     | 91     | 77     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | -     | 0.009  | 0.008  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | -     | -     | -     | -      | 11     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | -     | 89     | 98     |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | -     | 0.009  | 0.01   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | -     | 0.9    | 0.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |   |   |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | - | - |
|----------------------------|-------|---|--------|-------|-------|-------|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

| Lab Sample Number                       |       |                            |                              | 726591                 | 726592                 | 726593                 | 726594           | 726595          |
|-----------------------------------------|-------|----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------|-----------------|
| Sample Reference                        |       |                            |                              | C1583/179/Marl Pit SP3 | C1583/180/Marl Pit SP3 | C1583/181/Marl Pit SP3 | C1583/184/27 L11 | C1583/186/Y4 L4 |
| Sample Number                           |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Water Matrix                            |       |                            |                              | N/A                    | N/A                    | N/A                    | N/A              | N/A             |
| Depth (m)                               |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Date Sampled                            |       |                            |                              | 21/10/2025             | 21/10/2025             | 21/10/2025             | 22/10/2025       | 22/10/2025      |
| Time Taken                              |       |                            |                              | None Supplied          | None Supplied          | None Supplied          | None Supplied    | None Supplied   |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                        |                        |                        |                  |                 |

#### Speciated PAHs

|                        |       |      |           |        |        |        |   |   |
|------------------------|-------|------|-----------|--------|--------|--------|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.22   | 0.06   | < 0.05 | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.82   | 0.16   | 0.3    | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.66   | 0.12   | 0.21   | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 8.1    | 2.1    | 3.5    | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 2.8    | 0.54   | 0.99   | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 13     | 5.3    | 6.1    | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 12     | 4.8    | 5.4    | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 6.3    | 2.5    | 2.4    | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 5.8    | 2.4    | 2.5    | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 7.1    | 3.2    | 3.1    | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.3    | 1.4    | 1.1    | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 5.9    | 2.8    | 2.4    | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 2.5    | 1.3    | 1.2    | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.56   | 0.27   | 0.22   | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 2.7    | 1.6    | 1.3    | - | - |

#### Total PAH

|                             |       |     |           |    |      |      |   |   |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 71 | 28.5 | 30.7 | - | - |
|-----------------------------|-------|-----|-----------|----|------|------|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |       |       |       |   |   |
|------------------------------------|-------|------|--------|-------|-------|-------|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 8.6   | 7     | 6.1   | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.1   | 1.2   | 0.95  | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 1.1   | 1.2   | 1.1   | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 0.3   | 0.3   | 0.2   | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | < 1.8 | < 1.8 | < 1.8 | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | 29    | 33    | 28    | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 29    | 33    | 28    | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 22    | 28    | 21    | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 43    | 41    | 33    | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3 | < 0.3 | < 0.3 | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 20    | 23    | 19    | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 1.9   | 1.2   | 1.3   | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 35    | 38    | 30    | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 90    | 120   | 84    | - | - |

#### Petroleum Hydrocarbons

|                                         |       |    |      |     |    |    |   |   |
|-----------------------------------------|-------|----|------|-----|----|----|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_ID_TOTAL | mg/kg | 10 | NONE | 110 | 56 | 50 | - | - |
|-----------------------------------------|-------|----|------|-----|----|----|---|---|

|                                                   |       |    |           |       |       |       |   |   |
|---------------------------------------------------|-------|----|-----------|-------|-------|-------|---|---|
| Petroleum Range Organics (EC6 - EC10) HS_ID_TOTAL | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | - | - |
| TPH (EC10 - EC40) EH_CU_ID_TOTAL                  | mg/kg | 10 | MCERTS    | 110   | 56    | 50    | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-057579  
Project / Site name: Nertheffield Lane Derby  
Your Order No: SC1149

|                                         |       |                            |                              |                 |                 |                  |
|-----------------------------------------|-------|----------------------------|------------------------------|-----------------|-----------------|------------------|
| Lab Sample Number                       |       |                            |                              | 726596          | 726597          | 726598           |
| Sample Reference                        |       |                            |                              | C1583/187/X7 L5 | C1583/190/25 L8 | C1583/191/29 L16 |
| Sample Number                           |       |                            |                              | None Supplied   | None Supplied   | None Supplied    |
| Water Matrix                            |       |                            |                              | N/A             | N/A             | N/A              |
| Depth (m)                               |       |                            |                              | None Supplied   | None Supplied   | None Supplied    |
| Date Sampled                            |       |                            |                              | 22/10/2025      | 22/10/2025      | 22/10/2025       |
| Time Taken                              |       |                            |                              | None Supplied   | None Supplied   | None Supplied    |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                 |                 |                  |

|                               |    |      |      |      |      |       |
|-------------------------------|----|------|------|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | 35.1 | 25.4 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 42.8 | 29.7 | 27.8  |
| Moisture Content              | %  | 0.01 | NONE | 6.9  | 12   | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 1.3  | 1.2  | 1.5   |

#### Asbestos

|                                        |      |     |           |   |   |   |
|----------------------------------------|------|-----|-----------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | - | - | - |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 8.9    | 7.1    | 6.7    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | -      | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 210    | 190    | 280    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.021  | 0.019  | 0.028  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.007  | 0.006  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 75     | 85     | 140    |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 37.5   | 42.5   | 70.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0025 | 0.0028 | 0.0047 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 260    | 230    | 370    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.026  | 0.023  | 0.037  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 52     | 41     | 90     |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.005  | 0.004  | 0.009  |
| Water Soluble Chloride (2:1)                                            | mg/kg    | 1      | MCERTS | 8      | 14     | 17     |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 87     | 77     | 120    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.009  | 0.008  | 0.012  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.6    | 0.6    | 0.7    |

#### Total Phenols

|                            |       |   |        |   |   |   |
|----------------------------|-------|---|--------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | - |
|----------------------------|-------|---|--------|---|---|---|

Analytical Report Number: 25-057579  
Project / Site name: Nertheifield Lane Derby  
Your Order No: SC1149

|                                         |                 |                            |                              |
|-----------------------------------------|-----------------|----------------------------|------------------------------|
| Lab Sample Number                       | 726596          | 726597                     | 726598                       |
| Sample Reference                        | C1583/187/X7 L5 | C1583/190/25 L8            | C1583/191/29 L16             |
| Sample Number                           | None Supplied   | None Supplied              | None Supplied                |
| Water Matrix                            | N/A             | N/A                        | N/A                          |
| Depth (m)                               | None Supplied   | None Supplied              | None Supplied                |
| Date Sampled                            | 22/10/2025      | 22/10/2025                 | 22/10/2025                   |
| Time Taken                              | None Supplied   | None Supplied              | None Supplied                |
| Analytical Parameter<br>(Soil Analysis) | Units           | Test Limit of<br>detection | Test Accreditation<br>Status |

#### Speciated PAHs

|                        |       |      |           |   |   |   |
|------------------------|-------|------|-----------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - |

#### Total PAH

|                             |       |     |           |   |   |   |
|-----------------------------|-------|-----|-----------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | - |
|-----------------------------|-------|-----|-----------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |   |   |   |
|------------------------------------|-------|------|--------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | - | - | - |

#### Petroleum Hydrocarbons

|                                         |       |    |      |   |   |   |
|-----------------------------------------|-------|----|------|---|---|---|
| TPH Total >EC6 - EC40 EH_CU+HS_1D_TOTAL | mg/kg | 10 | NONE | - | - | - |
|-----------------------------------------|-------|----|------|---|---|---|

|                                                   |       |    |           |   |   |   |
|---------------------------------------------------|-------|----|-----------|---|---|---|
| Petroleum Range Organics (EC6 - EC10) HS_1D_TOTAL | mg/kg | 1  | ISO 17025 | - | - | - |
| TPH (EC10 - EC40) EH_CU_1D_TOTAL                  | mg/kg | 10 | MCERTS    | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

\* 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 *                           |
|-------------------|------------------|---------------|---------------|------------------------------------------------|
| 726591            | 83/179/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726592            | 83/180/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 726593            | 83/181/Marl Pit  | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 726594            | 1583/184/27 L1   | None Supplied | None Supplied | Brown sand with gravel and stones              |
| 726595            | C1583/186/Y4 L4  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726596            | C1583/187/X7 L5  | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 726597            | C1583/190/25 L8  | None Supplied | None Supplied | Brown clay with gravel and stones              |
| 726598            | 1583/191/29 L1   | None Supplied | None Supplied | Brown clay with gravel                         |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheifield Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |
| Acid Soluble Sulphur in soil                                           | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                                                       | L038B         | D                  | NONE                 |

**Analytical Report Number : 25-057579**

**Project / Site name: Nertheheld Lane Derby**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | 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               |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | D                  | MCERTS               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23937-23970      | Contract Sample No | C1583/195-204 |
| Report Date                                                                | 11 November 2025     | ETS Contract No    | C1583/195-204 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
|                                                                            | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 24/10/2025         |               |
|                                                                            | Date Received        | 24/10/2025         |               |
|                                                                            | Date Completed       | 10/11/2025         |               |
|                                                                            | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/195-204      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

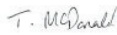
Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-058379

| ETS Number | Sample Number | Location                | Material                                    | Testing                       |
|------------|---------------|-------------------------|---------------------------------------------|-------------------------------|
| ETS/23937  | 195           | Marl Pit - Trial Hole 5 | Brown Sandy Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |
| ETS/23938  | 196           | Marl Pit - Trial Hole 5 | Brown Sandy Clay W/F-M Gravel (Made Ground) | Site Specific Chemical Suite  |
| ETS/23967  | 201           | Y4 Layer 5              | Brown Clay W/F-M Gravel + 2% OPC (Class 7)  | TRL 447, OM, PH, Chloride ION |
| ETS/23968  | 202           | X8 Layer 6              | Brown Clay W/F-M Gravel + 2% OPC (Class 7)  | TRL 447, OM, PH, Chloride ION |
| ETS/23970  | 204           | Y6 Layer 7              | Brown Clay W/F-M Gravel (Class 7)           | TRL 447, OM, PH, Chloride ION |

Authorised Signatory



Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:

e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-058379**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 28/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 28/10/2025 |
| <b>Your order number:</b>   | SC1161           | <b>Analysis completed by:</b>                          | 09/11/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 10/11/2025 |
| <b>Samples Analysed:</b>    | 5 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                       | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|-----------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                        | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                            | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                               | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                            | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                              | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

|                               |    |      |      |       |      |       |      |       |
|-------------------------------|----|------|------|-------|------|-------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | 13.2 | < 0.1 | 13.9 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -    | 6     | 17.5 | 7.1   |
| Moisture Content              | %  | 0.01 | NONE | 29    | 25   | 16    | 10   | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 1.8   | 1.6  | 0.9   | 1    | 0.9   |

#### Asbestos

|                                        |      |     |           |              |              |   |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Detected     | Detected     | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DOC          | PDO          | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 05/11/2025   | 05/11/2025   | - | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | Not-detected | Detected     | - | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | Detected     | Not-detected | - | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |

|                                                   |      |     |           |              |              |   |   |   |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | Loose Fibres | Loose Fibres | - | - | - |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | 7.3     | 7.3    | 7.3    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | -       | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | 320     | 430    | 260    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | 0.032   | 0.043  | 0.026  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | 0.011   | 0.014  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | 120     | 160    | 76     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | 0.004   | 0.0053 | 0.0025 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | 330     | 520    | 380    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | 0.033   | 0.052  | 0.038  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | < 20    | 97     | 120    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | < 0.002 | 0.01   | 0.012  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -     | -     | 5.1     | 13     | 4.4    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | 110     | 170    | 130    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | 0.011   | 0.017  | 0.013  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | < 0.1   | 0.6    | 0.6    |

#### Total Phenols

|                            |       |   |        |       |       |   |   |   |
|----------------------------|-------|---|--------|-------|-------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | - | - | - |
|----------------------------|-------|---|--------|-------|-------|---|---|---|

Analytical Report Number: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                       | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|-----------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                        | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                            | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                               | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                            | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                              | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

#### Speciated PAHs

|                        |       |      |           |      |      |   |   |   |
|------------------------|-------|------|-----------|------|------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.27 | 0.14 | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.07 | 0.1  | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.16 | 0.73 | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.13 | 0.91 | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.1  | 7.1  | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.34 | 2.2  | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.1  | 13   | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 3    | 11   | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.5  | 5.9  | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.8  | 5.7  | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.1  | 6    | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.89 | 3.2  | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.7  | 5.2  | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.86 | 2.5  | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2  | 0.39 | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.97 | 2.8  | - | - | - |

#### Total PAH

|                             |       |     |           |      |      |   |   |   |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 18.2 | 66.2 | - | - | - |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |                       |       |   |   |   |
|------------------------------------|-------|------|--------|-----------------------|-------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 26                    | 35    | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 2.3                   | 2.6   | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 3.6                   | 5.3   | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 1.4                   | 4     | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | U/S <sup>*U/S g</sup> | 4.3   | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | U/S <sup>*U/S g</sup> | 180   | - | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | < 1.80                | -     | - | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | 70                    | -     | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 70                    | 180   | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 190                   | 370   | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 310                   | 760   | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3                 | < 0.3 | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 52                    | 69    | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0                 | < 1.0 | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 49                    | 53    | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 560                   | 1200  | - | - | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |   |   |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|---|---|---|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_1D_TOTAL</sub>           | mg/kg | 10 | NONE      | 310   | 800   | - | - | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_1D_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | - | - | - |
| TPH (EC10 - EC40) <sub>EH_CU_1D_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 310   | 800   | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

\* 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 *                       |
|-------------------|---------------------|---------------|---------------|--------------------------------------------|
| 731600            | 95/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel            |
| 731601            | 96/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731602            | 1583/201/Y4 - L     | None Supplied | None Supplied | Brown clay and sand                        |
| 731603            | 1583/202/X8 - L     | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731604            | 1583/204/Y6 - L     | None Supplied | None Supplied | Brown clay and sand with gravel            |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection                        | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | 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               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

t:  
e: [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

t: 01923 225404  
f: 01923 237404  
e: [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-058379**

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 28/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 28/10/2025 |
| <b>Your order number:</b>   | SC1161           | <b>Analysis completed by:</b>                          | 09/11/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 10/11/2025 |
| <b>Samples Analysed:</b>    | 5 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                       | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|-----------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                        | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                            | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                               | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                            | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                              | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

|                               |    |      |      |       |      |       |      |       |
|-------------------------------|----|------|------|-------|------|-------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | 13.2 | < 0.1 | 13.9 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -    | 6     | 17.5 | 7.1   |
| Moisture Content              | %  | 0.01 | NONE | 29    | 25   | 16    | 10   | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 1.8   | 1.6  | 0.9   | 1    | 0.9   |

#### Asbestos

|                                        |      |     |           |              |              |   |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Detected     | Detected     | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DOC          | PDO          | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 05/11/2025   | 05/11/2025   | - | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | Not-detected | Detected     | - | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | Detected     | Not-detected | - | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |

|                                                   |      |     |           |              |              |   |   |   |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | Loose Fibres | Loose Fibres | - | - | - |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | 7.3     | 7.3    | 7.3    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | -       | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | 320     | 430    | 260    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | 0.032   | 0.043  | 0.026  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | 0.011   | 0.014  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | 120     | 160    | 76     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | 0.004   | 0.0053 | 0.0025 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | 330     | 520    | 380    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | 0.033   | 0.052  | 0.038  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | < 20    | 97     | 120    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | < 0.002 | 0.01   | 0.012  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -     | -     | 5.1     | 13     | 4.4    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | 110     | 170    | 130    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | 0.011   | 0.017  | 0.013  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | < 0.1   | 0.6    | 0.6    |

#### Total Phenols

|                            |       |   |        |       |       |   |   |   |
|----------------------------|-------|---|--------|-------|-------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | - | - | - |
|----------------------------|-------|---|--------|-------|-------|---|---|---|

Analytical Report Number: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                    | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                     | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                        | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                         | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                            | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                         | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter (Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

#### Speciated PAHs

|                        |       |      |           |      |      |   |   |   |
|------------------------|-------|------|-----------|------|------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.27 | 0.14 | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.07 | 0.1  | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.16 | 0.73 | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.13 | 0.91 | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.1  | 7.1  | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.34 | 2.2  | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.1  | 13   | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 3    | 11   | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.5  | 5.9  | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.8  | 5.7  | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.1  | 6    | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.89 | 3.2  | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.7  | 5.2  | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.86 | 2.5  | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2  | 0.39 | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.97 | 2.8  | - | - | - |

#### Total PAH

|                             |       |     |           |      |      |   |   |   |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 18.2 | 66.2 | - | - | - |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |                       |       |   |   |   |
|------------------------------------|-------|------|--------|-----------------------|-------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 26                    | 35    | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 2.3                   | 2.6   | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 3.6                   | 5.3   | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 1.4                   | 4     | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | U/S <sup>*U/S g</sup> | 4.3   | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | U/S <sup>*U/S g</sup> | 180   | - | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | < 1.80                | -     | - | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | 70                    | -     | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 70                    | 180   | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 190                   | 370   | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 310                   | 760   | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3                 | < 0.3 | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 52                    | 69    | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0                 | < 1.0 | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 49                    | 53    | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 560                   | 1200  | - | - | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |   |   |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|---|---|---|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 310   | 800   | - | - | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | - | - | - |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 310   | 800   | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

\* 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 *                       |
|-------------------|---------------------|---------------|---------------|--------------------------------------------|
| 731600            | 95/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel            |
| 731601            | 96/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731602            | 1583/201/Y4 - L     | None Supplied | None Supplied | Brown clay and sand                        |
| 731603            | 1583/202/X8 - L     | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731604            | 1583/204/Y6 - L     | None Supplied | None Supplied | Brown clay and sand with gravel            |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection                        | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | 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               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

**t:** 01923 225404  
**f:** 01923 237404  
**e:** info-i2analytical@normecgroup.com

## Analytical Report Number : 25-058379

|                             |                  |                                                        |            |
|-----------------------------|------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park | <b>Samples received on:</b>                            | 28/10/2025 |
| <b>Your job number:</b>     | C1583            | <b>Samples instructed on/<br/>Analysis started on:</b> | 28/10/2025 |
| <b>Your order number:</b>   | SC1161           | <b>Analysis completed by:</b>                          | 09/11/2025 |
| <b>Report Issue Number:</b> | 1                | <b>Report issued on:</b>                               | 10/11/2025 |
| <b>Samples Analysed:</b>    | 5 soil samples   |                                                        |            |



**Signed:**

Anna Goc  
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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                       | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|-----------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                        | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                            | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                               | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                            | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                              | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

|                               |    |      |      |       |      |       |      |       |
|-------------------------------|----|------|------|-------|------|-------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | 13.2 | < 0.1 | 13.9 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -    | 6     | 17.5 | 7.1   |
| Moisture Content              | %  | 0.01 | NONE | 29    | 25   | 16    | 10   | 19    |
| Total mass of sample received | kg | 0.1  | NONE | 1.8   | 1.6  | 0.9   | 1    | 0.9   |

#### Asbestos

|                                        |      |     |           |              |              |   |   |   |
|----------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Detected     | Detected     | - | - | - |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | DOC          | PDO          | - | - | - |
| Analysis completed                     | N/A  | N/A | N/A       | 05/11/2025   | 05/11/2025   | - | - | - |
| Actinolite detected                    | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Amosite detected                       | Type | N/A | ISO 17025 | Not-detected | Detected     | - | - | - |
| Anthophyllite detected                 | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Chrysotile detected                    | Type | N/A | ISO 17025 | Detected     | Not-detected | - | - | - |
| Crocidolite detected                   | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |
| Tremolite detected                     | Type | N/A | ISO 17025 | Not-detected | Not-detected | - | - | - |

|                                                   |      |     |           |              |              |   |   |   |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | Loose Fibres | Loose Fibres | - | - | - |
|---------------------------------------------------|------|-----|-----------|--------------|--------------|---|---|---|

#### General Inorganics

|                                                                         |          |        |        |       |       |         |        |        |
|-------------------------------------------------------------------------|----------|--------|--------|-------|-------|---------|--------|--------|
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -     | -     | 7.3     | 7.3    | 7.3    |
| Free Cyanide                                                            | mg/kg    | 1      | MCERTS | < 1.0 | < 1.0 | -       | -      | -      |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -     | -     | 320     | 430    | 260    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -     | -     | 0.032   | 0.043  | 0.026  |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -     | -     | 0.011   | 0.014  | 0.009  |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -     | -     | 120     | 160    | 76     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -     | -     | 59.3    | 79.9   | 37.7   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -     | -     | 0.004   | 0.0053 | 0.0025 |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -     | -     | 330     | 520    | 380    |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -     | -     | 0.033   | 0.052  | 0.038  |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -     | -     | < 20    | 97     | 120    |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -     | -     | < 0.002 | 0.01   | 0.012  |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -     | -     | 5.1     | 13     | 4.4    |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -     | -     | 110     | 170    | 130    |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -     | -     | 0.011   | 0.017  | 0.013  |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -     | -     | < 0.1   | 0.6    | 0.6    |

#### Total Phenols

|                            |       |   |        |       |       |   |   |   |
|----------------------------|-------|---|--------|-------|-------|---|---|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | - | - | - |
|----------------------------|-------|---|--------|-------|-------|---|---|---|

Analytical Report Number: 25-058379  
Project / Site name: Dove Valley Park  
Your Order No: SC1161

| Lab Sample Number                       | 731600                          | 731601                          | 731602                    | 731603            | 731604            |
|-----------------------------------------|---------------------------------|---------------------------------|---------------------------|-------------------|-------------------|
| Sample Reference                        | C1583/195/Marl Pit Trial Hole 5 | C1583/196/Marl Pit Trial Hole 5 | C1583/201/Y4 - L5         | C1583/202/X8 - L6 | C1583/204/Y6 - L7 |
| Sample Number                           | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Water Matrix                            | N/A                             | N/A                             | N/A                       | N/A               | N/A               |
| Depth (m)                               | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Date Sampled                            | 24/10/2025                      | 24/10/2025                      | 27/10/2025                | 27/10/2025        | 27/10/2025        |
| Time Taken                              | None Supplied                   | None Supplied                   | None Supplied             | None Supplied     | None Supplied     |
| Analytical Parameter<br>(Soil Analysis) | Units                           | Test Limit of detection         | Test Accreditation Status |                   |                   |

#### Speciated PAHs

|                        |       |      |           |      |      |   |   |   |
|------------------------|-------|------|-----------|------|------|---|---|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.27 | 0.14 | - | - | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.07 | 0.1  | - | - | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.16 | 0.73 | - | - | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.13 | 0.91 | - | - | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.1  | 7.1  | - | - | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.34 | 2.2  | - | - | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.1  | 13   | - | - | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 3    | 11   | - | - | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.5  | 5.9  | - | - | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.8  | 5.7  | - | - | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 2.1  | 6    | - | - | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.89 | 3.2  | - | - | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.7  | 5.2  | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.86 | 2.5  | - | - | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2  | 0.39 | - | - | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.97 | 2.8  | - | - | - |

#### Total PAH

|                             |       |     |           |      |      |   |   |   |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 18.2 | 66.2 | - | - | - |
|-----------------------------|-------|-----|-----------|------|------|---|---|---|

#### Heavy Metals / Metalloids

|                                    |       |      |        |                       |       |   |   |   |
|------------------------------------|-------|------|--------|-----------------------|-------|---|---|---|
| Arsenic (aqua regia extractable)   | mg/kg | 1    | MCERTS | 26                    | 35    | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 2.3                   | 2.6   | - | - | - |
| Boron (water soluble)              | mg/kg | 0.2  | MCERTS | 3.6                   | 5.3   | - | - | - |
| Cadmium (aqua regia extractable)   | mg/kg | 0.2  | MCERTS | 1.4                   | 4     | - | - | - |
| Chromium (hexavalent)              | mg/kg | 1.8  | MCERTS | U/S <sup>*U/S g</sup> | 4.3   | - | - | - |
| Chromium (III)                     | mg/kg | 1    | NONE   | U/S <sup>*U/S g</sup> | 180   | - | - | - |
| Chromium (VI) by IC                | mg/kg | 1.8  | NONE   | < 1.80                | -     | - | - | - |
| Chromium (III) by IC               | mg/kg | 1    | NONE   | 70                    | -     | - | - | - |
| Chromium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 70                    | 180   | - | - | - |
| Copper (aqua regia extractable)    | mg/kg | 1    | MCERTS | 190                   | 370   | - | - | - |
| Lead (aqua regia extractable)      | mg/kg | 1    | MCERTS | 310                   | 760   | - | - | - |
| Mercury (aqua regia extractable)   | mg/kg | 0.3  | MCERTS | < 0.3                 | < 0.3 | - | - | - |
| Nickel (aqua regia extractable)    | mg/kg | 1    | MCERTS | 52                    | 69    | - | - | - |
| Selenium (aqua regia extractable)  | mg/kg | 1    | MCERTS | < 1.0                 | < 1.0 | - | - | - |
| Vanadium (aqua regia extractable)  | mg/kg | 1    | MCERTS | 49                    | 53    | - | - | - |
| Zinc (aqua regia extractable)      | mg/kg | 1    | MCERTS | 560                   | 1200  | - | - | - |

#### Petroleum Hydrocarbons

|                                                              |       |    |           |       |       |   |   |   |
|--------------------------------------------------------------|-------|----|-----------|-------|-------|---|---|---|
| TPH Total >EC6 - EC40 <sub>EH_CU+HS_ID_TOTAL</sub>           | mg/kg | 10 | NONE      | 310   | 800   | - | - | - |
| Petroleum Range Organics (EC6 - EC10) <sub>HS_ID_TOTAL</sub> | mg/kg | 1  | ISO 17025 | < 1.0 | < 1.0 | - | - | - |
| TPH (EC10 - EC40) <sub>EH_CU_ID_TOTAL</sub>                  | mg/kg | 10 | MCERTS    | 310   | 800   | - | - | - |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

\* 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 *                       |
|-------------------|---------------------|---------------|---------------|--------------------------------------------|
| 731600            | 95/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel            |
| 731601            | 96/Marl Pit - Trial | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731602            | 1583/201/Y4 - L     | None Supplied | None Supplied | Brown clay and sand                        |
| 731603            | 1583/202/X8 - L     | None Supplied | None Supplied | Brown clay and sand with gravel and stones |
| 731604            | 1583/204/Y6 - L     | None Supplied | None Supplied | Brown clay and sand with gravel            |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                   | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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, 2021                                                                 | A001B         | D                  | ISO 17025            |
| Moisture Content                                                       | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                                                        | L019B         | W                  | NONE                 |
| 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.                             | L019B         | D                  | NONE                 |
| 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                    | L038B         | D                  | MCERTS               |
| Boron, water soluble, in soil                                          | Determination of water soluble boron in soil by hot water extract followed by ICP-OES                                                               | In-house method based on Second Site Properties version 3                                              | L038B         | D                  | MCERTS               |
| Cr(VI) in soils by Ion chromatography                                  | Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection                        | In-house method                                                                                        | L130B         | W                  | NONE                 |
| Speciated PAHs and/or Semi-volatile organic compounds in soil          | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS              | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                         | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                                     | In-house method                                                                                        | L076B         | D                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands) | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).                                                            | Calculation                                                                                            | L076B/L088-PL | D/W                | NONE                 |
| Chromium III in soil                                                   | In-house method by calculation from total Cr and Cr VI                                                                                              | In-house method by calculation                                                                         | L080-PL/L130B | W                  | NONE                 |
| Hexavalent chromium in soil                                            | Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry                    | In-house method                                                                                        | L080-PL       | W                  | MCERTS               |
| Free cyanide in soil                                                   | Determination of free cyanide by distillation followed by colorimetry                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in soil                                             | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | MCERTS               |
| Total petroleum hydrocarbons by HS-GC-MS in soil                       | Determination of total petroleum hydrocarbons in soil by HS-GC-MS                                                                                   | In-house method                                                                                        | L129-PL       | W                  | ISO 17025            |
| Soil Descriptions                                                      | Textural classification                                                                                                                             | In-house method                                                                                        | L019B         | 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 (Walkley Black Method) | In-house method                                                                                        | L009B         | D                  | MCERTS               |

**Analytical Report Number : 25-058379**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                       | Analytical Method Reference                               | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|--------------------|----------------------|
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method.                                          | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                   | In-house method based on TRL 447                          | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                              | In-house method                                           | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                  | In-house method                                           | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                 | By calculation - In-house method based on TRL 447 report. | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method                                           | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                     | In-house method                                           | L082B         | 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               |

**For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL' or 'B' 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 30°C.**

**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.**

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

\*U/S g- Unsuitable for analysis due to high colour intensity.

|                                                                                                           |                                                                                                                                          |                                                                                                             |               |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|
| Laboratory Report                                                                                         | ETS/23996-24005                                                                                                                          | Contract Sample No                                                                                          | C1583/210-219 |
| Report Date                                                                                               | 13 November 2025                                                                                                                         | ETS Contract No                                                                                             | C1583/210-219 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL<br><br><b>Dove Valley Park</b> | Material Description<br><br>Source<br>Supplier<br>Date Sampled<br>Date Received<br>Date Completed<br>Sample Location<br>Client Reference | See Below<br><br>Ex-Site<br>Ex-Site<br>28/10/2025<br>28/10/2025<br>12/11/2025<br>See Below<br>C1583/210-219 |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

Testing Lab: I2 Analytical LTD

Report Number: 25-058798

| ETS Number | Sample Number | Location                      | Material                          | Testing                                       |
|------------|---------------|-------------------------------|-----------------------------------|-----------------------------------------------|
| ETS/23996  | 210           | X6 Layer 5                    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, Sulphate Suite, OM, PH, Chloride ION |
| ETS/23997  | 211           | W8 Layer 1                    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, Sulphate Suite, OM, PH, Chloride ION |
| ETS/23998  | 212           | W7 Layer 2                    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION                 |
| ETS/23999  | 213           | W8 Layer 3                    | Brown Clay W/F-M Gravel (Class 7) | TRL 447, OM, PH, Chloride ION                 |
| ETS/24000  | 214           | Marl Pit - Deep Trial Hole 5A | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |
| ETS/24001  | 215           | Marl Pit - Deep Trial Hole 5B | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |
| ETS/24002  | 216           | Marl Pit - Deep Trial Hole 5C | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |
| ETS/24003  | 217           | Marl Pit - Deep Trial Hole 5D | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |
| ETS/24004  | 218           | Marl Pit - Deep Trial Hole 5E | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |
| ETS/24005  | 219           | Marl Pit - Deep Trial Hole 5F | Brown Clay W/F-M Gravel           | #118589, WM3 Suite, WAC                       |

Authorised Signatory

T. McDonald

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

**t:** 01923 225404  
**f:** 01923 237404  
**e:** [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-058798**

|                             |                                    |                                                        |            |
|-----------------------------|------------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park                   | <b>Samples received on:</b>                            | 29/10/2025 |
| <b>Your job number:</b>     | C1583                              | <b>Samples instructed on/<br/>Analysis started on:</b> | 29/10/2025 |
| <b>Your order number:</b>   | SC1164                             | <b>Analysis completed by:</b>                          | 12/11/2025 |
| <b>Report Issue Number:</b> | 1                                  | <b>Report issued on:</b>                               | 12/11/2025 |
| <b>Samples Analysed:</b>    | 10 soil samples - 6 2stage samples |                                                        |            |



**Signed:**

Joanna Biolik  
Senior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734316            | 734317            | 734318            | 734319            | 734320                                   |
|-----------------------------------------|-------|-------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/210/X6 - L5 | C1583/211/W8 - L1 | C1583/212/W7 - L2 | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Water Matrix                            |       |                         |                           | N/A               | N/A               | N/A               | N/A               | N/A                                      |
| Depth (m)                               |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Date Sampled                            |       |                         |                           | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025                               |
| Time Taken                              |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                   |                   |                   |                   |                                          |

|                               |    |      |      |      |     |       |       |       |
|-------------------------------|----|------|------|------|-----|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 21.2 | 8.7 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 24.9 | 3   | 0.8   | 1.4   | -     |
| Moisture Content              | %  | 0.01 | NONE | 11   | 15  | 16    | 13    | 14    |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 1   | 1     | 0.9   | 2     |

#### General Inorganics

|                                                                         |          |        |        |        |        |        |         |     |
|-------------------------------------------------------------------------|----------|--------|--------|--------|--------|--------|---------|-----|
| pH (L005B)                                                              | pH Units | N/A    | MCERTS | -      | -      | -      | -       | 7.7 |
| pH (L099)                                                               | pH Units | N/A    | MCERTS | 7.2    | 6.8    | 6.8    | 6.9     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | 380    | 570    | 350    | 250     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | 0.038  | 0.057  | 0.035  | 0.025   | -   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | 0.013  | 0.019  | 0.012  | 0.008   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | 260    | 310    | 150    | 120     | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | 0.0088 | 0.0104 | 0.0049 | 0.0039  | -   |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | 500    | 640    | 370    | 270     | -   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | 0.05   | 0.064  | 0.037  | 0.027   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | 110    | 71     | 21     | < 20    | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | 0.011  | 0.007  | 0.002  | < 0.002 | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | 7.9    | 8.7    | 4.3    | 11      | -   |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | 170    | 210    | 120    | 89      | -   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | 0.017  | 0.021  | 0.012  | 0.009   | -   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | 0.2    | 0.3    | 0.3    | < 0.1   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %        | 0.1    | MCERTS | -      | -      | -      | -       | 1.2 |
| Loss on Ignition @ 450°C                                                | %        | 0.2    | MCERTS | -      | -      | -      | -       | 3.9 |
| Acid Neutralisation Capacity                                            | mmol/kg  | -9999  | NONE   | -      | -      | -      | -       | 2.7 |

#### Speciated PAHs

|                        |       |      |           |   |   |   |   |      |
|------------------------|-------|------|-----------|---|---|---|---|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - | - | 1.1  |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.15 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 5    |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.1  |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 36   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 37   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - | - | 29   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 11   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 8.7  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 7    |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.5  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.61 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.8  |
| Coronene               | mg/kg | 0.05 | NONE      | - | - | - | - | 0.53 |

Analytical Report Number: 25-058798  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1164

|                                         |                   |                         |                           |                   |                                          |
|-----------------------------------------|-------------------|-------------------------|---------------------------|-------------------|------------------------------------------|
| Lab Sample Number                       | 734316            | 734317                  | 734318                    | 734319            | 734320                                   |
| Sample Reference                        | C1583/210/X6 - L5 | C1583/211/W8 - L1       | C1583/212/W7 - L2         | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Water Matrix                            | N/A               | N/A                     | N/A                       | N/A               | N/A                                      |
| Depth (m)                               | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Date Sampled                            | 28/10/2025        | 28/10/2025              | 28/10/2025                | 28/10/2025        | 28/10/2025                               |
| Time Taken                              | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of detection | Test Accreditation Status |                   |                                          |

#### Total PAH

|                   |       |      |      |   |   |   |   |     |
|-------------------|-------|------|------|---|---|---|---|-----|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | - | - | - | - | 176 |
|-------------------|-------|------|------|---|---|---|---|-----|

#### Petroleum Hydrocarbons

|                                                      |       |    |      |   |   |   |   |      |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|
| Mineral Oil (EC10 - EC40) <small>EH_CU_10_AL</small> | mg/kg | 10 | NONE | - | - | - | - | < 10 |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|

#### VOCs

|              |       |   |        |   |   |   |   |       |
|--------------|-------|---|--------|---|---|---|---|-------|
| Benzene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | - | - | - | - | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |

|            |       |    |        |   |   |   |   |      |
|------------|-------|----|--------|---|---|---|---|------|
| Total BTEX | µg/kg | 10 | MCERTS | - | - | - | - | < 10 |
|------------|-------|----|--------|---|---|---|---|------|

#### PCBs by GC-MS

|                  |       |       |        |   |   |   |   |         |
|------------------|-------|-------|--------|---|---|---|---|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |

|            |       |       |        |   |   |   |   |         |
|------------|-------|-------|--------|---|---|---|---|---------|
| Total PCBs | mg/kg | 0.007 | MCERTS | - | - | - | - | < 0.007 |
|------------|-------|-------|--------|---|---|---|---|---------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       | 734321                                   | 734322                                   | 734323                                       | 734324                                      | 734325                                      |
|-----------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sample Reference                        | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217///Marl Pit - Deep Trial Hole 5 (D) | C1583/218//Marl Pit - Deep Trial Hole 5 (E) | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           | None Supplied                            | None Supplied                            | None Supplied                                | None Supplied                               | None Supplied                               |
| Water Matrix                            | N/A                                      | N/A                                      | N/A                                          | N/A                                         | N/A                                         |
| Depth (m)                               | None Supplied                            | None Supplied                            | None Supplied                                | None Supplied                               | None Supplied                               |
| Date Sampled                            | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                   | 28/10/2025                                  | 28/10/2025                                  |
| Time Taken                              | None Supplied                            | None Supplied                            | None Supplied                                | None Supplied                               | None Supplied                               |
| Analytical Parameter<br>(Soil Analysis) | Units                                    | Test Limit of detection                  | Test Accreditation Status                    |                                             |                                             |

|                               |    |      |      |       |       |    |      |      |
|-------------------------------|----|------|------|-------|-------|----|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 32 | 35.8 | 43.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -  | -    | -    |
| Moisture Content              | %  | 0.01 | NONE | 14    | 14    | 25 | 17   | 19   |
| Total mass of sample received | kg | 0.1  | NONE | 2     | 2     | 2  | 2    | 2    |

#### General Inorganics

|                                                                         |          |        |        |     |     |     |     |     |
|-------------------------------------------------------------------------|----------|--------|--------|-----|-----|-----|-----|-----|
| pH (L005B)                                                              | pH Units | N/A    | MCERTS | 7.7 | 7.6 | 7.5 | 7.6 | 7.6 |
| pH (L099)                                                               | pH Units | N/A    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg    | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Acid Soluble Sulphur                                                    | %        | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5    | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l     | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble Sulphur                                                   | %        | 0.0001 | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | mg/kg    | 30     | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | %        | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg    | 20     | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %        | 0.002  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l     | 0.5    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | mg/kg    | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | %        | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Organic Matter (automated)                                              | %        | 0.1    | MCERTS | -   | -   | -   | -   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %        | 0.1    | MCERTS | 1.5 | 1.5 | 3.8 | 2.9 | 2.4 |
| Loss on Ignition @ 450°C                                                | %        | 0.2    | MCERTS | 4.1 | 4.3 | 9.8 | 8.5 | 5.8 |
| Acid Neutralisation Capacity                                            | mmol/kg  | -9999  | NONE   | 2.8 | 1.9 | 3.7 | 7.9 | 5   |

#### Speciated PAHs

|                        |       |      |           |      |      |      |      |      |
|------------------------|-------|------|-----------|------|------|------|------|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.73 | 0.51 | 0.1  | 1.2  | 0.12 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.09 | 0.2  | 0.09 | 0.22 | 0.17 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 3.8  | 1.9  | 0.23 | 6.3  | 0.82 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 4.4  | 2.2  | 0.19 | 5.3  | 0.82 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 28   | 15   | 2.6  | 38   | 10   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 9.7  | 4.5  | 0.7  | 13   | 2.3  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 36   | 20   | 6.1  | 45   | 18   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 29   | 17   | 5.6  | 38   | 16   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 15   | 8.2  | 3    | 20   | 7.3  |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 14   | 7.7  | 3.5  | 17   | 7.4  |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 12   | 7.5  | 4.6  | 18   | 8.8  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 4.9  | 2.9  | 1.7  | 8.1  | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 9.8  | 6.2  | 3.4  | 16   | 7.1  |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 3.2  | 2.3  | 1.8  | 6.3  | 3.6  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 1.1  | 0.66 | 0.38 | 1.5  | 0.59 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 3.6  | 2.4  | 2.1  | 6.4  | 4    |
| Coronene               | mg/kg | 0.05 | NONE      | 0.77 | 0.55 | 0.37 | 1.6  | 0.89 |

Analytical Report Number: 25-058798  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734321                                   | 734322                                   | 734323                                     | 734324                                     | 734325                                     |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) | C1583/219/Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Water Matrix                            |       |                         |                           | N/A                                      | N/A                                      | N/A                                        | N/A                                        | N/A                                        |
| Depth (m)                               |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Date Sampled                            |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                              |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                            |                                            |                                            |

#### Total PAH

|                   |       |      |      |     |      |      |     |      |
|-------------------|-------|------|------|-----|------|------|-----|------|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | 177 | 98.3 | 36.4 | 240 | 91.9 |
|-------------------|-------|------|------|-----|------|------|-----|------|

#### Petroleum Hydrocarbons

|                                                  |       |    |      |    |    |     |     |    |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|
| Mineral Oil (EC10 - EC40) <sub>EH_CU_10_AL</sub> | mg/kg | 10 | NONE | 31 | 28 | 410 | 220 | 91 |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|

#### VOCs

|              |       |   |        |       |       |       |       |       |
|--------------|-------|---|--------|-------|-------|-------|-------|-------|
| Benzene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | < 8.0 | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

|            |       |    |        |      |      |      |      |      |
|------------|-------|----|--------|------|------|------|------|------|
| Total BTEX | µg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 | < 10 |
|------------|-------|----|--------|------|------|------|------|------|

#### PCBs by GC-MS

|                  |       |       |        |         |         |         |         |         |
|------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.005   | 0.009   |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.007   | 0.02    | 0.065   |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.011   | 0.024   |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | 0.002   | < 0.001 | 0.014   | 0.038   | 0.19    |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | 0.001   | < 0.001 | 0.012   | 0.039   | 0.21    |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.01    | 0.032   | 0.22    |

|            |       |       |        |         |         |       |      |      |
|------------|-------|-------|--------|---------|---------|-------|------|------|
| Total PCBs | mg/kg | 0.007 | MCERTS | < 0.007 | < 0.007 | 0.044 | 0.15 | 0.72 |
|------------|-------|-------|--------|---------|---------|-------|------|------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     | 734320                                   | 734321                                   | 734322                                   | 734323                                      | 734324                                      |
|-------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sample Reference                                      | C1583/214/Marl Pit Deep Trial Hole 5 (A) | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217//Marl Pit - Deep Trial Hole 5 (D) | C1583/218//Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               |
| Water Matrix                                          | N/A                                      | N/A                                      | N/A                                      | N/A                                         | N/A                                         |
| Depth (m)                                             | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               |
| Date Sampled                                          | 28/10/2025                               | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                  | 28/10/2025                                  |
| Time Taken                                            | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units                                    | Test Limit of detection                  | Test Accreditation Status                |                                             |                                             |

|                         |   |     |           |       |       |       |       |       |
|-------------------------|---|-----|-----------|-------|-------|-------|-------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 79    | 77    | 77    | 68    | 75    |
| Moisture of sample      | % | N/A | ISO 17025 | 26    | 29    | 31    | 46    | 33    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.16  | 0.18  | 0.18  | 0.25  | 0.27  |
| Volume used first stage | l | N/A | ISO 17025 | 0.304 | 0.299 | 0.296 | 0.269 | 0.291 |

#### General 2:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 68        | 49        | 88        | 280       | 280       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    | < 0.16    | < 0.16    | < 0.16    | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 19        | 13        | 7.8       | 6.9       | 4.9       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.41      | 0.45      | 0.41      | 0.41      | 0.41      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 34.5      | 26.4      | 32.2      | 16.3      | 11.1      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 130       | 120       | 170       | 420       | 440       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0031    | < 0.0020  | 0.0023    |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | 0.00012   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | 0.001     | 0.00061   | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  | 0.0034    |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | < 0.0050  | < 0.0050  | 0.0059    | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.058     | 0.022     | 0.047     | 0.032     | 0.034     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0023    | 0.0012    | 0.0022    | 0.0064    | 0.0084    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.022     | 0.021     | 0.022     | 0.061     | 0.13      |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | 0.0092    | 0.013     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.007     | 0.018     | 0.0072    | 0.021     | 0.045     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.083     | 0.083     | 0.11      | 0.2       | 0.16      |

#### General 8:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 140       | 84        | 190       | 200       | 61        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    | < 0.13    | < 0.13    | < 0.13    | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     | < 4.0     | < 4.0     | < 4.0     | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.1       | 0.25      | 0.09      | 0.22      | 0.49      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.1       | 9.7       | 7.5       | 4         | 7.6       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 190       | 130       | 240       | 290       | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | 0.00018   | < 0.00010 | 0.00023   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | 0.0022    | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | 0.006     | 0.0087    | < 0.0050  | 0.0058    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.006     | 0.0058    | 0.039     | 0.003     | 0.0042    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0082    | 0.0023    | 0.013     | 0.0067    | 0.0022    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.09      | 0.022     | 0.15      | 0.051     | 0.017     |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0033    | 0.0054    | 0.0083    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | < 0.0014  | 0.002     | < 0.0014  | 0.0051    | 0.04      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.25      | 0.13      | 0.3       | 0.14      | 0.09      |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     |  |  |  | 734320                                      | 734321                                      | 734322                                      | 734323                                     | 734324                                     |
|-------------------------------------------------------|--|--|--|---------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                                      |  |  |  | C1583/214/Marl Pit<br>Deep Trial Hole 5 (A) | C1583/215/Marl Pit<br>Deep Trial Hole 5 (B) | C1583/216/Marl Pit<br>Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         |  |  |  | None Supplied                               | None Supplied                               | None Supplied                               | None Supplied                              | None Supplied                              |
| Water Matrix                                          |  |  |  | N/A                                         | N/A                                         | N/A                                         | N/A                                        | N/A                                        |
| Depth (m)                                             |  |  |  | None Supplied                               | None Supplied                               | None Supplied                               | None Supplied                              | None Supplied                              |
| Date Sampled                                          |  |  |  | 28/10/2025                                  | 28/10/2025                                  | 28/10/2025                                  | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                                            |  |  |  | None Supplied                               | None Supplied                               | None Supplied                               | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Two-stage Leachate Analysis) |  |  |  | Units                                       | Test Limit of detection                     | Test Accreditation Status                   |                                            |                                            |

#### General 10:1

|                             |       |       |      |          |          |          |          |          |
|-----------------------------|-------|-------|------|----------|----------|----------|----------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 1400     | 800      | 1800     | 2100     | 950      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   | < 0.50   | < 0.50   | < 0.50   | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 29       | 26       | 17       | 22       | 18       |
| Fluoride                    | mg/kg | 0.2   | NONE | 1.3      | 2.7      | 1.2      | 2.5      | 4.8      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 106      | 114      | 100      | 57.7     | 81.1     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1800     | 1300     | 2300     | 3100     | 1900     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | < 0.020  | < 0.020  | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 | < 0.0010 | 0.0016   | < 0.0010 | 0.0021   |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | 0.02     | < 0.017  | < 0.017  | < 0.017  | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | < 0.050  | 0.054    | 0.078    | < 0.050  | < 0.050  |
| Copper                      | mg/kg | 0.007 | NONE | 0.11     | 0.075    | 0.4      | 0.071    | 0.088    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.077    | 0.022    | 0.12     | 0.067    | 0.031    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.84     | 0.22     | 1.3      | 0.53     | 0.34     |
| Antimony                    | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | 0.029    | 0.06     | 0.089    |
| Molybdenum                  | mg/kg | 0.014 | NONE | < 0.014  | 0.036    | < 0.014  | 0.074    | 0.41     |
| Barium                      | mg/kg | 0.012 | NONE | 2.3      | 1.3      | 2.8      | 1.5      | 1        |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                            |                              |                                                   |
|-------------------------------------------------------|-------|----------------------------|------------------------------|---------------------------------------------------|
| Lab Sample Number                                     |       |                            |                              | 734325                                            |
| Sample Reference                                      |       |                            |                              | C1583/219//Marl<br>Pit - Deep Trial<br>Hole 5 (F) |
| Sample Number                                         |       |                            |                              | None Supplied                                     |
| Water Matrix                                          |       |                            |                              | N/A                                               |
| Depth (m)                                             |       |                            |                              | None Supplied                                     |
| Date Sampled                                          |       |                            |                              | 28/10/2025                                        |
| Time Taken                                            |       |                            |                              | None Supplied                                     |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                                                   |

|                         |   |     |           |       |
|-------------------------|---|-----|-----------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 78    |
| Moisture of sample      | % | N/A | ISO 17025 | 28    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.2   |
| Volume used first stage | l | N/A | ISO 17025 | 0.301 |

#### General 2:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 250       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 5.4       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.58      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 11.3      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 390       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.023     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0041    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.1       |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.011     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.02      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.13      |

#### General 8:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 53        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.61      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.3       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | 0.0062    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.0043    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0011    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.0073    |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.0071    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.015     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.066     |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                            |                              |                                                   |
|-------------------------------------------------------|-------|----------------------------|------------------------------|---------------------------------------------------|
| Lab Sample Number                                     |       |                            |                              | 734325                                            |
| Sample Reference                                      |       |                            |                              | C1583/219//Marl<br>Pit - Deep Trial<br>Hole 5 (F) |
| Sample Number                                         |       |                            |                              | None Supplied                                     |
| Water Matrix                                          |       |                            |                              | N/A                                               |
| Depth (m)                                             |       |                            |                              | None Supplied                                     |
| Date Sampled                                          |       |                            |                              | 28/10/2025                                        |
| Time Taken                                            |       |                            |                              | None Supplied                                     |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                                                   |

#### General 10:1

|                             |       |       |      |          |
|-----------------------------|-------|-------|------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 760      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 19       |
| Fluoride                    | mg/kg | 0.2   | NONE | 6.1      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 86.9     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1700     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | 0.055    |
| Copper                      | mg/kg | 0.007 | NONE | 0.065    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.015    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.18     |
| Antimony                    | mg/kg | 0.02  | NONE | 0.076    |
| Molybdenum                  | mg/kg | 0.014 | NONE | 0.15     |
| Barium                      | mg/kg | 0.012 | NONE | 0.74     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734320                                     |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/214/Marl Pit - Deep Trial Hole 5 (A) |           |  |                 |                                                  |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.2                                        |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9                                        |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 176                                        |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.7                                        |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test        |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.25      |  | 2.3             | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.058                                      | 0.006     |  | 0.11            | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.007                                      | < 0.0014  |  | < 0.014         | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0023                                     | 0.0082    |  | 0.077           | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | 0.0022    |  | 0.02            | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | < 0.0050  |  | < 0.050         | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.09      |  | 0.84            | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19                                         | < 4.0     |  | 29              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.1       |  | 1.3             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68                                         | 140       |  | 1400            | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                                        | 190       |  | 1800            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34.5                                       | 8.2       |  | 106             | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.304                                      |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16                                       |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                  |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                  |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                            |                                                                        |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|--------------------------------------------|------------------------------------------------------------------------|-----------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                         |                                                                        |                             |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                            |                                                                        |                             |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734321                                     |           |  |                 | Landfill Waste Acceptance Criteria         |                                                                        |                             |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Inert Waste<br>Landfill                    | Stable Non-reactive<br>HAZARDOUS<br>waste in non-hazardous<br>Landfill | Hazardous<br>Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/215/Marl Pit - Deep Trial Hole 5 (B) |           |  |                 |                                            |                                                                        |                             |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                            |                                                                        |                             |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                            |                                                                        |                             |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                         | 5%                                                                     | 6%                          |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.1                                        |           |  |                 | --                                         | --                                                                     | 10%                         |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                       | --                                                                     | --                          |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                          | --                                                                     | --                          |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 31                                         |           |  |                 | 500                                        | --                                                                     | --                          |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 177                                        |           |  |                 | 100                                        | --                                                                     | --                          |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                         | >6                                                                     | --                          |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.8                                        |           |  |                 | --                                         | To be evaluated                                                        | To be evaluated             |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                                        |                             |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                                        |                             |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                                      | 25                          |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.13      |  | 1.3             | 20                                         | 100                                                                    | 300                         |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                       | 1                                                                      | 5                           |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                                     | 70                          |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.022                                      | 0.0058    |  | 0.075           | 2                                          | 50                                                                     | 100                         |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                                    | 2                           |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.018                                      | 0.002     |  | 0.036           | 0.5                                        | 10                                                                     | 30                          |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0012                                     | 0.0023    |  | 0.022           | 0.4                                        | 10                                                                     | 40                          |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                                     | 50                          |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                       | 0.7                                                                    | 5                           |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.006     |  | 0.054           | 0.1                                        | 0.5                                                                    | 7                           |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.021                                      | 0.022     |  | 0.22            | 4                                          | 50                                                                     | 200                         |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13                                         | < 4.0     |  | 26              | 800                                        | 15000                                                                  | 25000                       |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.45                                       | 0.25      |  | 2.7             | 10                                         | 150                                                                    | 500                         |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49                                         | 84        |  | 800             | 1000                                       | 20000                                                                  | 50000                       |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120                                        | 130       |  | 1300            | 4000                                       | 60000                                                                  | 100000                      |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                          | -                                                                      | -                           |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.4                                       | 9.7       |  | 114             | 500                                        | 800                                                                    | 1000                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                            |                                                                        |                             |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                            |                                                                        |                             |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                            |                                                                        |                             |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                            |                                                                        |                             |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                            |                                                                        |                             |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                            |                                                                        |                             |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                            |                                                                        |                             |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.299                                      |           |  |                 |                                            |                                                                        |                             |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                            |                                                                        |                             |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                            |                                                                        |                             |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited                                                                                                                                                                                                                                                                                                       |                                            |           |  |                 |                                            |                                                                        |                             |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non hazardous. |                                            |           |  |                 |                                            |                                                                        |                             |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                            |                                                                        |                             |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                            |                                                                        |                             |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                   |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|---------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                                |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                   |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734322                                     |           |  |                 | Landfill Waste Acceptance Criteria                |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Limits                                            |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/216/Marl Pit - Deep Trial Hole 5 (C) |           |  |                 | Inert Waste Landfill                              | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                   |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                   |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                                | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.3                                        |           |  |                 | --                                                | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                              | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                 | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 28                                         |           |  |                 | 500                                               | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 98.3                                       |           |  |                 | 100                                               | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                        |           |  |                 | --                                                | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 1.9                                        |           |  |                 | --                                                | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test         |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)        |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0031                                     | < 0.0020  |  | < 0.020         | 0.5                                               | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.11                                       | 0.3       |  | 2.8             | 20                                                | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | 0.00018   |  | 0.0016          | 0.04                                              | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.001                                      | < 0.00060 |  | < 0.0060        | 0.5                                               | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.047                                      | 0.039     |  | 0.4             | 2                                                 | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                              | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0072                                     | < 0.0014  |  | < 0.014         | 0.5                                               | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0022                                     | 0.013     |  | 0.12            | 0.4                                               | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                               | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | 0.0033    |  | 0.029           | 0.06                                              | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.0087    |  | 0.078           | 0.1                                               | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.15      |  | 1.3             | 4                                                 | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.8                                        | < 4.0     |  | 17              | 800                                               | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.09      |  | 1.2             | 10                                                | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88                                         | 190       |  | 1800            | 1000                                              | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 170                                        | 240       |  | 2300            | 4000                                              | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                 | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32.2                                       | 7.5       |  | 100             | 500                                               | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                   |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                   |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                   |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                   |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                   |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.296                                      |           |  |                 |                                                   |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | * = UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                   |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                   |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                   |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

### Waste Acceptance Criteria Analytical Results

|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|---------------------------------------------------|--------------------------------------------|-----------------|-----------------|
| Report No:                                                                                                           | 25-058798                                   |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| Location                                                                                                             | Dove Valley Park                            |           |  |                                                   |                                            |                 |                 |
| Lab Reference (Sample Number)                                                                                        | 734323                                      |           |  |                                                   |                                            |                 |                 |
| Sampling Date                                                                                                        | 28/10/2025                                  |           |  |                                                   |                                            |                 |                 |
| Sample ID                                                                                                            | C1583/217//Marl Pit - Deep Trial Hole 5 (D) |           |  |                                                   |                                            |                 |                 |
| Depth (m)                                                                                                            | None Supplied                               |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| Solid Waste Analysis                                                                                                 |                                             |           |  |                                                   |                                            |                 |                 |
| TOC (%)**                                                                                                            | 3.8                                         |           |  |                                                   | 3%                                         | 5%              | 6%              |
| Loss on Ignition (%) **                                                                                              | 9.8                                         |           |  |                                                   | --                                         | --              | 10%             |
| BTEX (µg/kg)**                                                                                                       | < 10                                        |           |  |                                                   | 6000                                       | --              | --              |
| Sum of PCBs (mg/kg)**                                                                                                | 0.044                                       |           |  |                                                   | 1                                          | --              | --              |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                       | 410                                         |           |  |                                                   | 500                                        | --              | --              |
| Total PAH (WAC-17) (mg/kg)                                                                                           | 36.4                                        |           |  |                                                   | 100                                        | --              | --              |
| pH (units)**                                                                                                         | 7.5                                         |           |  |                                                   | --                                         | >6              | --              |
| Acid Neutralisation Capacity (mmol / kg)                                                                             | 3.7                                         |           |  |                                                   | --                                         | To be evaluated | To be evaluated |
| Eluate Analysis                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                              | 2:1                                         | 8:1       |  | Cumulative 10:1                                   | Limit values for compliance leaching test  |                 |                 |
|                                                                                                                      | mg/l                                        | mg/l      |  | mg/kg                                             | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| Arsenic *                                                                                                            | < 0.0020                                    | < 0.0020  |  | < 0.020                                           | 0.5                                        | 2               | 25              |
| Barium *                                                                                                             | 0.2                                         | 0.14      |  | 1.5                                               | 20                                         | 100             | 300             |
| Cadmium *                                                                                                            | < 0.00010                                   | < 0.00010 |  | < 0.0010                                          | 0.04                                       | 1               | 5               |
| Chromium *                                                                                                           | 0.00061                                     | < 0.00060 |  | < 0.0060                                          | 0.5                                        | 10              | 70              |
| Copper *                                                                                                             | 0.032                                       | 0.003     |  | 0.071                                             | 2                                          | 50              | 100             |
| Mercury *                                                                                                            | < 0.00070                                   | < 0.0007  |  | < 0.0070                                          | 0.01                                       | 0.2             | 2               |
| Molybdenum *                                                                                                         | 0.021                                       | 0.0051    |  | 0.074                                             | 0.5                                        | 10              | 30              |
| Nickel *                                                                                                             | 0.0064                                      | 0.0067    |  | 0.067                                             | 0.4                                        | 10              | 40              |
| Lead *                                                                                                               | < 0.0017                                    | < 0.0017  |  | < 0.017                                           | 0.5                                        | 10              | 50              |
| Antimony *                                                                                                           | 0.0092                                      | 0.0054    |  | 0.06                                              | 0.06                                       | 0.7             | 5               |
| Selenium *                                                                                                           | 0.0059                                      | < 0.0050  |  | < 0.050                                           | 0.1                                        | 0.5             | 7               |
| Zinc *                                                                                                               | 0.061                                       | 0.051     |  | 0.53                                              | 4                                          | 50              | 200             |
| Chloride *                                                                                                           | 6.9                                         | < 4.0     |  | 22                                                | 800                                        | 15000           | 25000           |
| Fluoride*                                                                                                            | 0.41                                        | 0.22      |  | 2.5                                               | 10                                         | 150             | 500             |
| Sulphate *                                                                                                           | 280                                         | 200       |  | 2100                                              | 1000                                       | 20000           | 50000           |
| TDS*                                                                                                                 | 420                                         | 290       |  | 3100                                              | 4000                                       | 60000           | 100000          |
| Phenol Index (Monohydric Phenols) *                                                                                  | < 0.16                                      | < 0.13    |  | < 0.50                                            | 1                                          | -               | -               |
| DOC                                                                                                                  | 16.3                                        | 4         |  | 57.7                                              | 500                                        | 800             | 1000            |
| Leach Test Information                                                                                               |                                             |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| Stone Content (%)                                                                                                    | 32                                          |           |  |                                                   |                                            |                 |                 |
| Sample Mass (kg)                                                                                                     | 2                                           |           |  |                                                   |                                            |                 |                 |
| Dry Matter (%)                                                                                                       | 75                                          |           |  |                                                   |                                            |                 |                 |
| Moisture (%)                                                                                                         | 25                                          |           |  |                                                   |                                            |                 |                 |
| Stage 1                                                                                                              |                                             |           |  |                                                   |                                            |                 |                 |
| Volume Eluate L2 (litres)                                                                                            | 0.269                                       |           |  |                                                   |                                            |                 |                 |
| Filtered Eluate VE1 (litres)                                                                                         | 0.25                                        |           |  |                                                   |                                            |                 |                 |
|                                                                                                                      |                                             |           |  |                                                   |                                            |                 |                 |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                 |                                             |           |  | * = UKAS accredited (liquid eluate analysis only) |                                            |                 |                 |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation |                                             |           |  | ** = MCERTS accredited                            |                                            |                 |                 |

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.

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.

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email: reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734324                                      |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/218//Marl Pit - Deep Trial Hole 5 (E) |           |  |                 |                                                  |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.9                                         |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.5                                         |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.15                                        |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 220                                         |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 240                                         |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                         |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 7.9                                         |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test        |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0023                                      | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.16                                        | 0.09      |  | 1               | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00012                                     | 0.00023   |  | 0.0021          | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.034                                       | 0.0042    |  | 0.088           | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.045                                       | 0.04      |  | 0.41            | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0084                                      | 0.0022    |  | 0.031           | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0034                                      | < 0.0017  |  | < 0.017         | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.013                                       | 0.0083    |  | 0.089           | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                    | 0.0058    |  | < 0.050         | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.13                                        | 0.017     |  | 0.34            | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.9                                         | < 4.0     |  | 18              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                        | 0.49      |  | 4.8             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 280                                         | 61        |  | 950             | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 440                                         | 140       |  | 1900            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.1                                        | 7.6       |  | 81.1            | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.8                                        |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 83                                          |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17                                          |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.291                                       |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.27                                        |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                             |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                                  |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                             |           |  |                 |                                                  |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734325                                      |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Limits                                           |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.4                                         |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.8                                         |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.72                                        |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) EH_10_CU_AL                                                                                                                                                                                                                                                                                                                                                                                                                   | 91                                          |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 91.9                                        |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                         |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 5                                           |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test        |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                    | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.13                                        | 0.066     |  | 0.74            | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                   | < 0.00010 |  | < 0.0010        | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.023                                       | 0.0043    |  | 0.065           | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.02                                        | 0.015     |  | 0.15            | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0041                                      | 0.0011    |  | 0.015           | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                    | < 0.0017  |  | < 0.017         | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.011                                       | 0.0071    |  | 0.076           | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                    | 0.0062    |  | 0.055           | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.1                                         | 0.0073    |  | 0.18            | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.4                                         | < 4.0     |  | 19              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.58                                        | 0.61      |  | 6.1             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250                                         | 53        |  | 760             | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 390                                         | 140       |  | 1700            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.3                                        | 8.3       |  | 86.9            | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 43.8                                        |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 81                                          |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19                                          |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.301                                       |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                         |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                                  |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                             |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                                  |                                                               |                          |
| 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 : 25-058798**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|--------------------|---------------|---------------|------------------------------------------------|
| 734316            | 1583/210/X6 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734317            | 1583/211/W8 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734318            | 1583/212/W7 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734319            | 1583/213/W8 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734320            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel                |
| 734321            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 734322            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734323            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 734324            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 734325            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and loam with vegetation and stones |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |
| pH at 20°C in soil                                 | Determination of pH in soil by addition of water followed by electrometric measurement                                                              | In-house method                                                            | L005B         | W                  | MCERTS               |
| Total organic carbon in soil                       | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L023B         | D                  | MCERTS               |
| PCB's By GC-MS in soil                             | Determination of PCB by extraction with hexane followed by GC-MS                                                                                    | In-house method based on USEPA 8082                                        | L027B         | D                  | MCERTS               |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                          | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| TDS in WAC leachate (BS EN 12457-3 Prep)                      | Determination of total dissolved solids in leachate by electrometric measurement                                                       | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L031B         | W                  | ISO 17025            |
| Fluoride in WAC leachate (BS EN 12457-3 Prep)                 | Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode                           | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L033B         | W                  | ISO 17025            |
| DOC in WAC leachate (BS EN 12457-3 Prep)                      | Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser                                                         | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L037B         | W                  | NONE                 |
| Metals in WAC leachate (BS EN 12457-3 Prep)                   | Determination of metals in leachate by acidification followed by ICP-OES                                                               | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Sulphate in WAC leachate (BS EN 12457-3 Prep)                 | Determination of sulphate in leachate by acidification followed by ICP-OES                                                             | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Two stage WAC leachate preparation                            | Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg                                                                   | BS EN 12457-3-2002                                                                                     | L043B         | W                  | ISO 17025            |
| Acid neutralisation capacity of soil                          | Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe                               | In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance  | L046B         | W                  | NONE                 |
| Loss on ignition of soil @ 450°C                              | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                         | In-house method                                                                                        | L047-PL       | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| BTEX and/or Volatile organic compounds in soil                | Determination of volatile organic compounds in soil by headspace GC-MS                                                                 | In-house method based on USEPA 8260                                                                    | L073B         | W                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | NONE                 |
| Phenol Index in WAC leachate (BS EN 12457-3 Prep)             | Determination of monohydric phenols in leachate by continuous flow analyser                                                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | ISO 17025            |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                          | Analytical Method Description                                   | Analytical Method Reference                    | Method number | Wet / Dry Analysis | Accreditation Status |
|-----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------|--------------------|----------------------|
| Chloride in WAC leachate (BS EN 12457-3 Prep) | Determination of Chloride colorimetrically by discrete analyser | In-house based on MEWAM Method ISBN 0117516260 | L082B         | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| -       | Operator - underscore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

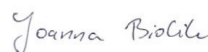
i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:**  
**e:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)  
[subcontractors@earthworkstesting.co.uk](mailto:subcontractors@earthworkstesting.co.uk)

**t:** 01923 225404  
**f:** 01923 237404  
**e:** [info-i2analytical@normecgroup.com](mailto:info-i2analytical@normecgroup.com)

## **Analytical Report Number : 25-058798**

|                             |                                    |                                                        |            |
|-----------------------------|------------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park                   | <b>Samples received on:</b>                            | 29/10/2025 |
| <b>Your job number:</b>     | C1583                              | <b>Samples instructed on/<br/>Analysis started on:</b> | 29/10/2025 |
| <b>Your order number:</b>   | SC1164                             | <b>Analysis completed by:</b>                          | 12/11/2025 |
| <b>Report Issue Number:</b> | 1                                  | <b>Report issued on:</b>                               | 12/11/2025 |
| <b>Samples Analysed:</b>    | 10 soil samples - 6 2stage samples |                                                        |            |



**Signed:**

Joanna Biolik  
Senior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734316            | 734317            | 734318            | 734319            | 734320                                   |
|-----------------------------------------|-------|-------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/210/X6 - L5 | C1583/211/W8 - L1 | C1583/212/W7 - L2 | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Water Matrix                            |       |                         |                           | N/A               | N/A               | N/A               | N/A               | N/A                                      |
| Depth (m)                               |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Date Sampled                            |       |                         |                           | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025                               |
| Time Taken                              |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                   |                   |                   |                   |                                          |

|                               |    |      |      |      |     |       |       |       |
|-------------------------------|----|------|------|------|-----|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 21.2 | 8.7 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 24.9 | 3   | 0.8   | 1.4   | -     |
| Moisture Content              | %  | 0.01 | NONE | 11   | 15  | 16    | 13    | 14    |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 1   | 1     | 0.9   | 2     |

#### General Inorganics

|                                                                         |             |        |        |        |        |        |         |     |
|-------------------------------------------------------------------------|-------------|--------|--------|--------|--------|--------|---------|-----|
| pH (L005B)                                                              | pH Units    | N/A    | MCERTS | -      | -      | -      | -       | 7.7 |
| pH (L099)                                                               | pH Units    | N/A    | MCERTS | 7.2    | 6.8    | 6.8    | 6.9     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg       | 50     | MCERTS | 380    | 570    | 350    | 250     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %           | 0.005  | MCERTS | 0.038  | 0.057  | 0.035  | 0.025   | -   |
| Acid Soluble Sulphur                                                    | %           | 0.003  | NONE   | 0.013  | 0.019  | 0.012  | 0.008   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg       | 2.5    | MCERTS | 260    | 310    | 150    | 120     | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l        | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l        | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble Sulphur                                                   | %           | 0.0001 | NONE   | 0.0088 | 0.0104 | 0.0049 | 0.0039  | -   |
| Total Potential Sulphate                                                | mg/kg       | 30     | NONE   | 500    | 640    | 370    | 270     | -   |
| Total Potential Sulphate                                                | %           | 0.003  | NONE   | 0.05   | 0.064  | 0.037  | 0.027   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg       | 20     | NONE   | 110    | 71     | 21     | < 20    | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %           | 0.002  | NONE   | 0.011  | 0.007  | 0.002  | < 0.002 | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l        | 0.5    | MCERTS | 7.9    | 8.7    | 4.3    | 11      | -   |
| Total Sulphur                                                           | mg/kg       | 50     | MCERTS | 170    | 210    | 120    | 89      | -   |
| Total Sulphur                                                           | %           | 0.005  | MCERTS | 0.017  | 0.021  | 0.012  | 0.009   | -   |
| Organic Matter (automated)                                              | %           | 0.1    | MCERTS | 0.2    | 0.3    | 0.3    | < 0.1   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %           | 0.1    | MCERTS | -      | -      | -      | -       | 1.2 |
| Loss on Ignition @ 450°C                                                | %           | 0.2    | MCERTS | -      | -      | -      | -       | 3.9 |
| Acid Neutralisation Capacity                                            | ±/- mmol/kg | -9999  | NONE   | -      | -      | -      | -       | 2.7 |

#### Speciated PAHs

|                        |       |      |           |   |   |   |   |      |
|------------------------|-------|------|-----------|---|---|---|---|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - | - | 1.1  |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.15 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 5    |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.1  |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 36   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 37   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - | - | 29   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 11   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 8.7  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 7    |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.5  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.61 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.8  |
| Coronene               | mg/kg | 0.05 | NONE      | - | - | - | - | 0.53 |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

|                                         |                   |                         |                           |                   |                                          |
|-----------------------------------------|-------------------|-------------------------|---------------------------|-------------------|------------------------------------------|
| Lab Sample Number                       | 734316            | 734317                  | 734318                    | 734319            | 734320                                   |
| Sample Reference                        | C1583/210/X6 - L5 | C1583/211/W8 - L1       | C1583/212/W7 - L2         | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Water Matrix                            | N/A               | N/A                     | N/A                       | N/A               | N/A                                      |
| Depth (m)                               | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Date Sampled                            | 28/10/2025        | 28/10/2025              | 28/10/2025                | 28/10/2025        | 28/10/2025                               |
| Time Taken                              | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of detection | Test Accreditation Status |                   |                                          |

#### Total PAH

|                   |       |      |      |   |   |   |   |     |
|-------------------|-------|------|------|---|---|---|---|-----|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | - | - | - | - | 176 |
|-------------------|-------|------|------|---|---|---|---|-----|

#### Petroleum Hydrocarbons

|                                                      |       |    |      |   |   |   |   |      |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|
| Mineral Oil (EC10 - EC40) <small>EH_CU_10_AL</small> | mg/kg | 10 | NONE | - | - | - | - | < 10 |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|

#### VOCs

|              |       |   |        |   |   |   |   |       |
|--------------|-------|---|--------|---|---|---|---|-------|
| Benzene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | - | - | - | - | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |

|            |       |    |        |   |   |   |   |      |
|------------|-------|----|--------|---|---|---|---|------|
| Total BTEX | µg/kg | 10 | MCERTS | - | - | - | - | < 10 |
|------------|-------|----|--------|---|---|---|---|------|

#### PCBs by GC-MS

|                  |       |       |        |   |   |   |   |         |
|------------------|-------|-------|--------|---|---|---|---|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |

|            |       |       |        |   |   |   |   |         |
|------------|-------|-------|--------|---|---|---|---|---------|
| Total PCBs | mg/kg | 0.007 | MCERTS | - | - | - | - | < 0.007 |
|------------|-------|-------|--------|---|---|---|---|---------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734321                                   | 734322                                   | 734323                                      | 734324                                      | 734325                                      |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217//Marl Pit - Deep Trial Hole 5 (D) | C1583/218//Marl Pit - Deep Trial Hole 5 (E) | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Water Matrix                            |       |                         |                           | N/A                                      | N/A                                      | N/A                                         | N/A                                         | N/A                                         |
| Depth (m)                               |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Date Sampled                            |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                  | 28/10/2025                                  | 28/10/2025                                  |
| Time Taken                              |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                             |                                             |                                             |

|                               |    |      |      |       |       |    |      |      |
|-------------------------------|----|------|------|-------|-------|----|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 32 | 35.8 | 43.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -  | -    | -    |
| Moisture Content              | %  | 0.01 | NONE | 14    | 14    | 25 | 17   | 19   |
| Total mass of sample received | kg | 0.1  | NONE | 2     | 2     | 2  | 2    | 2    |

#### General Inorganics

|                                                                         |             |        |        |     |     |     |     |     |
|-------------------------------------------------------------------------|-------------|--------|--------|-----|-----|-----|-----|-----|
| pH (L005B)                                                              | pH Units    | N/A    | MCERTS | 7.7 | 7.6 | 7.5 | 7.6 | 7.6 |
| pH (L099)                                                               | pH Units    | N/A    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg       | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %           | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Acid Soluble Sulphur                                                    | %           | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg       | 2.5    | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l        | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l        | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble Sulphur                                                   | %           | 0.0001 | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | mg/kg       | 30     | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | %           | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg       | 20     | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %           | 0.002  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l        | 0.5    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | mg/kg       | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | %           | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Organic Matter (automated)                                              | %           | 0.1    | MCERTS | -   | -   | -   | -   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %           | 0.1    | MCERTS | 1.5 | 1.5 | 3.8 | 2.9 | 2.4 |
| Loss on Ignition @ 450°C                                                | %           | 0.2    | MCERTS | 4.1 | 4.3 | 9.8 | 8.5 | 5.8 |
| Acid Neutralisation Capacity                                            | ±/- mmol/kg | -9999  | NONE   | 2.8 | 1.9 | 3.7 | 7.9 | 5   |

#### Speciated PAHs

|                        |       |      |           |      |      |      |      |      |
|------------------------|-------|------|-----------|------|------|------|------|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.73 | 0.51 | 0.1  | 1.2  | 0.12 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.09 | 0.2  | 0.09 | 0.22 | 0.17 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 3.8  | 1.9  | 0.23 | 6.3  | 0.82 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 4.4  | 2.2  | 0.19 | 5.3  | 0.82 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 28   | 15   | 2.6  | 38   | 10   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 9.7  | 4.5  | 0.7  | 13   | 2.3  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 36   | 20   | 6.1  | 45   | 18   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 29   | 17   | 5.6  | 38   | 16   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 15   | 8.2  | 3    | 20   | 7.3  |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 14   | 7.7  | 3.5  | 17   | 7.4  |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 12   | 7.5  | 4.6  | 18   | 8.8  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 4.9  | 2.9  | 1.7  | 8.1  | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 9.8  | 6.2  | 3.4  | 16   | 7.1  |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 3.2  | 2.3  | 1.8  | 6.3  | 3.6  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 1.1  | 0.66 | 0.38 | 1.5  | 0.59 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 3.6  | 2.4  | 2.1  | 6.4  | 4    |
| Coronene               | mg/kg | 0.05 | NONE      | 0.77 | 0.55 | 0.37 | 1.6  | 0.89 |

Analytical Report Number: 25-058798  
 Project / Site name: Dove Valley Park  
 Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734321                                   | 734322                                   | 734323                                      | 734324                                      | 734325                                      |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217//Marl Pit - Deep Trial Hole 5 (D) | C1583/218//Marl Pit - Deep Trial Hole 5 (E) | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Water Matrix                            |       |                         |                           | N/A                                      | N/A                                      | N/A                                         | N/A                                         | N/A                                         |
| Depth (m)                               |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Date Sampled                            |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                  | 28/10/2025                                  | 28/10/2025                                  |
| Time Taken                              |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                             |                                             |                                             |

#### Total PAH

|                   |       |      |      |     |      |      |     |      |
|-------------------|-------|------|------|-----|------|------|-----|------|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | 177 | 98.3 | 36.4 | 240 | 91.9 |
|-------------------|-------|------|------|-----|------|------|-----|------|

#### Petroleum Hydrocarbons

|                                                  |       |    |      |    |    |     |     |    |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|
| Mineral Oil (EC10 - EC40) <sub>EH_CU_10_AL</sub> | mg/kg | 10 | NONE | 31 | 28 | 410 | 220 | 91 |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|

#### VOCs

|              |       |   |        |       |       |       |       |       |
|--------------|-------|---|--------|-------|-------|-------|-------|-------|
| Benzene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | < 8.0 | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

|            |       |    |        |      |      |      |      |      |
|------------|-------|----|--------|------|------|------|------|------|
| Total BTEX | µg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 | < 10 |
|------------|-------|----|--------|------|------|------|------|------|

#### PCBs by GC-MS

|                  |       |       |        |         |         |         |         |         |
|------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.005   | 0.009   |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.007   | 0.02    | 0.065   |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.011   | 0.024   |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | 0.002   | < 0.001 | 0.014   | 0.038   | 0.19    |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | 0.001   | < 0.001 | 0.012   | 0.039   | 0.21    |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.01    | 0.032   | 0.22    |

|            |       |       |        |         |         |       |      |      |
|------------|-------|-------|--------|---------|---------|-------|------|------|
| Total PCBs | mg/kg | 0.007 | MCERTS | < 0.007 | < 0.007 | 0.044 | 0.15 | 0.72 |
|------------|-------|-------|--------|---------|---------|-------|------|------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     |  |  |  | 734320                                   | 734321                                   | 734322                                   | 734323                                     | 734324                                     |
|-------------------------------------------------------|--|--|--|------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                                      |  |  |  | C1583/214/Marl Pit Deep Trial Hole 5 (A) | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Water Matrix                                          |  |  |  | N/A                                      | N/A                                      | N/A                                      | N/A                                        | N/A                                        |
| Depth (m)                                             |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Date Sampled                                          |  |  |  | 28/10/2025                               | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                                            |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Two-stage Leachate Analysis) |  |  |  | Units                                    | Test Limit of detection                  | Test Accreditation Status                |                                            |                                            |

|                         |   |     |           |       |       |       |       |       |
|-------------------------|---|-----|-----------|-------|-------|-------|-------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 79    | 77    | 77    | 68    | 75    |
| Moisture of sample      | % | N/A | ISO 17025 | 26    | 29    | 31    | 46    | 33    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.16  | 0.18  | 0.18  | 0.25  | 0.27  |
| Volume used first stage | l | N/A | ISO 17025 | 0.304 | 0.299 | 0.296 | 0.269 | 0.291 |

#### General 2:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 68        | 49        | 88        | 280       | 280       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    | < 0.16    | < 0.16    | < 0.16    | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 19        | 13        | 7.8       | 6.9       | 4.9       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.41      | 0.45      | 0.41      | 0.41      | 0.41      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 34.5      | 26.4      | 32.2      | 16.3      | 11.1      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 130       | 120       | 170       | 420       | 440       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0031    | < 0.0020  | 0.0023    |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | 0.00012   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | 0.001     | 0.00061   | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  | 0.0034    |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | < 0.0050  | < 0.0050  | 0.0059    | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.058     | 0.022     | 0.047     | 0.032     | 0.034     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0023    | 0.0012    | 0.0022    | 0.0064    | 0.0084    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.022     | 0.021     | 0.022     | 0.061     | 0.13      |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | 0.0092    | 0.013     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.007     | 0.018     | 0.0072    | 0.021     | 0.045     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.083     | 0.083     | 0.11      | 0.2       | 0.16      |

#### General 8:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 140       | 84        | 190       | 200       | 61        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    | < 0.13    | < 0.13    | < 0.13    | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     | < 4.0     | < 4.0     | < 4.0     | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.1       | 0.25      | 0.09      | 0.22      | 0.49      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.1       | 9.7       | 7.5       | 4         | 7.6       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 190       | 130       | 240       | 290       | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | 0.00018   | < 0.00010 | 0.00023   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | 0.0022    | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | 0.006     | 0.0087    | < 0.0050  | 0.0058    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.006     | 0.0058    | 0.039     | 0.003     | 0.0042    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0082    | 0.0023    | 0.013     | 0.0067    | 0.0022    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.09      | 0.022     | 0.15      | 0.051     | 0.017     |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0033    | 0.0054    | 0.0083    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | < 0.0014  | 0.002     | < 0.0014  | 0.0051    | 0.04      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.25      | 0.13      | 0.3       | 0.14      | 0.09      |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     |  |  |  | 734320                                   | 734321                                   | 734322                                   | 734323                                     | 734324                                     |
|-------------------------------------------------------|--|--|--|------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                                      |  |  |  | C1583/214/Marl Pit Deep Trial Hole 5 (A) | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Water Matrix                                          |  |  |  | N/A                                      | N/A                                      | N/A                                      | N/A                                        | N/A                                        |
| Depth (m)                                             |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Date Sampled                                          |  |  |  | 28/10/2025                               | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                                            |  |  |  | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Two-stage Leachate Analysis) |  |  |  | Units                                    | Test Limit of detection                  | Test Accreditation Status                |                                            |                                            |

#### General 10:1

|                             |       |       |      |          |          |          |          |          |
|-----------------------------|-------|-------|------|----------|----------|----------|----------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 1400     | 800      | 1800     | 2100     | 950      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   | < 0.50   | < 0.50   | < 0.50   | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 29       | 26       | 17       | 22       | 18       |
| Fluoride                    | mg/kg | 0.2   | NONE | 1.3      | 2.7      | 1.2      | 2.5      | 4.8      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 106      | 114      | 100      | 57.7     | 81.1     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1800     | 1300     | 2300     | 3100     | 1900     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | < 0.020  | < 0.020  | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 | < 0.0010 | 0.0016   | < 0.0010 | 0.0021   |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | 0.02     | < 0.017  | < 0.017  | < 0.017  | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | < 0.050  | 0.054    | 0.078    | < 0.050  | < 0.050  |
| Copper                      | mg/kg | 0.007 | NONE | 0.11     | 0.075    | 0.4      | 0.071    | 0.088    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.077    | 0.022    | 0.12     | 0.067    | 0.031    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.84     | 0.22     | 1.3      | 0.53     | 0.34     |
| Antimony                    | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | 0.029    | 0.06     | 0.089    |
| Molybdenum                  | mg/kg | 0.014 | NONE | < 0.014  | 0.036    | < 0.014  | 0.074    | 0.41     |
| Barium                      | mg/kg | 0.012 | NONE | 2.3      | 1.3      | 2.8      | 1.5      | 1        |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                            |                              |                                                   |
|-------------------------------------------------------|-------|----------------------------|------------------------------|---------------------------------------------------|
| Lab Sample Number                                     |       |                            |                              | 734325                                            |
| Sample Reference                                      |       |                            |                              | C1583/219//Marl<br>Pit - Deep Trial<br>Hole 5 (F) |
| Sample Number                                         |       |                            |                              | None Supplied                                     |
| Water Matrix                                          |       |                            |                              | N/A                                               |
| Depth (m)                                             |       |                            |                              | None Supplied                                     |
| Date Sampled                                          |       |                            |                              | 28/10/2025                                        |
| Time Taken                                            |       |                            |                              | None Supplied                                     |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                                                   |

|                         |   |     |           |       |
|-------------------------|---|-----|-----------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 78    |
| Moisture of sample      | % | N/A | ISO 17025 | 28    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.2   |
| Volume used first stage | l | N/A | ISO 17025 | 0.301 |

#### General 2:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 250       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 5.4       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.58      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 11.3      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 390       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.023     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0041    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.1       |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.011     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.02      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.13      |

#### General 8:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 53        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.61      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.3       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | 0.0062    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.0043    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0011    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.0073    |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.0071    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.015     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.066     |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                         |                           |                                             |
|-------------------------------------------------------|-------|-------------------------|---------------------------|---------------------------------------------|
| Lab Sample Number                                     |       |                         |                           | 734325                                      |
| Sample Reference                                      |       |                         |                           | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                                         |       |                         |                           | None Supplied                               |
| Water Matrix                                          |       |                         |                           | N/A                                         |
| Depth (m)                                             |       |                         |                           | None Supplied                               |
| Date Sampled                                          |       |                         |                           | 28/10/2025                                  |
| Time Taken                                            |       |                         |                           | None Supplied                               |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                             |

#### General 10:1

|                             |       |       |      |          |
|-----------------------------|-------|-------|------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 760      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 19       |
| Fluoride                    | mg/kg | 0.2   | NONE | 6.1      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 86.9     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1700     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | 0.055    |
| Copper                      | mg/kg | 0.007 | NONE | 0.065    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.015    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.18     |
| Antimony                    | mg/kg | 0.02  | NONE | 0.076    |
| Molybdenum                  | mg/kg | 0.014 | NONE | 0.15     |
| Barium                      | mg/kg | 0.012 | NONE | 0.74     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                   |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|---------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                                |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                   |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734320                                     |           |  |                 | Landfill Waste Acceptance Criteria                |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Inert Waste Landfill                              | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/214/Marl Pit - Deep Trial Hole 5 (A) |           |  |                 |                                                   |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                   |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                   |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.2                                        |           |  |                 | 3%                                                | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9                                        |           |  |                 | --                                                | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                              | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                 | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 500                                               | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 176                                        |           |  |                 | 100                                               | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                                | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.7                                        |           |  |                 | --                                                | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test         |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)        |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                               | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.25      |  | 2.3             | 20                                                | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                              | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                               | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.058                                      | 0.006     |  | 0.11            | 2                                                 | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                              | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.007                                      | < 0.0014  |  | < 0.014         | 0.5                                               | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0023                                     | 0.0082    |  | 0.077           | 0.4                                               | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | 0.0022    |  | 0.02            | 0.5                                               | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                              | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | < 0.0050  |  | < 0.050         | 0.1                                               | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.09      |  | 0.84            | 4                                                 | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19                                         | < 4.0     |  | 29              | 800                                               | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.1       |  | 1.3             | 10                                                | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68                                         | 140       |  | 1400            | 1000                                              | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                                        | 190       |  | 1800            | 4000                                              | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                 | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34.5                                       | 8.2       |  | 106             | 500                                               | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                   |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                   |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                   |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                   |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                   |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.304                                      |           |  |                 |                                                   |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16                                       |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | * = UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                   |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                   |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                   |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email: reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734321                                     |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Limits                                           |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/215/Marl Pit - Deep Trial Hole 5 (B) |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.1                                        |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 31                                         |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 177                                        |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.8                                        |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test        |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.13      |  | 1.3             | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.022                                      | 0.0058    |  | 0.075           | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.018                                      | 0.002     |  | 0.036           | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0012                                     | 0.0023    |  | 0.022           | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.006     |  | 0.054           | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.021                                      | 0.022     |  | 0.22            | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13                                         | < 4.0     |  | 26              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.45                                       | 0.25      |  | 2.7             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49                                         | 84        |  | 800             | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120                                        | 130       |  | 1300            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.4                                       | 9.7       |  | 114             | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.299                                      |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                  |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                  |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734322                                     |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Limits                                           |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/216/Marl Pit - Deep Trial Hole 5 (C) |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.3                                        |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 28                                         |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 98.3                                       |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                        |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 1.9                                        |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Limit values for compliance leaching test        |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | 2:1                                        | 8:1       |  | Cumulative 10:1 | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/l                                       | mg/l      |  | mg/kg           |                                                  |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0031                                     | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.11                                       | 0.3       |  | 2.8             | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | 0.00018   |  | 0.0016          | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.001                                      | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.047                                      | 0.039     |  | 0.4             | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0072                                     | < 0.0014  |  | < 0.014         | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0022                                     | 0.013     |  | 0.12            | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | 0.0033    |  | 0.029           | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.0087    |  | 0.078           | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.15      |  | 1.3             | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.8                                        | < 4.0     |  | 17              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.09      |  | 1.2             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88                                         | 190       |  | 1800            | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 170                                        | 240       |  | 2300            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32.2                                       | 7.5       |  | 100             | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.296                                      |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                  |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                  |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                         |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                            |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734323                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/217//Marl Pit - Deep Trial Hole 5 (D) |           |  |                 |                                            |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                            |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.8                                         |           |  |                 | 3%                                         | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.8                                         |           |  |                 | --                                         | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                       | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.044                                       |           |  |                 | 1                                          | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 410                                         |           |  |                 | 500                                        | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 36.4                                        |           |  |                 | 100                                        | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.5                                         |           |  |                 | --                                         | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 3.7                                         |           |  |                 | --                                         | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                    | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2                                         | 0.14      |  | 1.5             | 20                                         | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                   | < 0.00010 |  | < 0.0010        | 0.04                                       | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00061                                     | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.032                                       | 0.003     |  | 0.071           | 2                                          | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.021                                       | 0.0051    |  | 0.074           | 0.5                                        | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0064                                      | 0.0067    |  | 0.067           | 0.4                                        | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                    | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0092                                      | 0.0054    |  | 0.06            | 0.06                                       | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0059                                      | < 0.0050  |  | < 0.050         | 0.1                                        | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.061                                       | 0.051     |  | 0.53            | 4                                          | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.9                                         | < 4.0     |  | 22              | 800                                        | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                        | 0.22      |  | 2.5             | 10                                         | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 280                                         | 200       |  | 2100            | 1000                                       | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 420                                         | 290       |  | 3100            | 4000                                       | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16.3                                        | 4         |  | 57.7            | 500                                        | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32                                          |           |  |                 |                                            |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                            |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 75                                          |           |  |                 |                                            |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25                                          |           |  |                 |                                            |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                            |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.269                                       |           |  |                 |                                            |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                        |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | ** = MCERTS accredited                     |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non hazardous. |                                             |           |  |                 |                                            |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                            |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                             |           |  |                 |                                            |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email: reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                            |                                                                        |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|------------------------------------------------------------------------|-----------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                         |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                                        |                             |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                            |                                                                        |                             |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734324                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Limits                                     |                                                                        |                             |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Inert Waste<br>Landfill                    | Stable Non-reactive<br>HAZARDOUS<br>waste in non-hazardous<br>Landfill | Hazardous<br>Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/218//Marl Pit - Deep Trial Hole 5 (E) |           |  |                 |                                            |                                                                        |                             |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                            |                                                                        |                             |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                                        |                             |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.9                                         |           |  |                 | 3%                                         | 5%                                                                     | 6%                          |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.5                                         |           |  |                 | --                                         | --                                                                     | 10%                         |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                       | --                                                                     | --                          |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.15                                        |           |  |                 | 1                                          | --                                                                     | --                          |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 220                                         |           |  |                 | 500                                        | --                                                                     | --                          |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 240                                         |           |  |                 | 100                                        | --                                                                     | --                          |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                         |           |  |                 | --                                         | >6                                                                     | --                          |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 7.9                                         |           |  |                 | --                                         | To be evaluated                                                        | To be evaluated             |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                                        |                             |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                                        |                             |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0023                                      | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                                      | 25                          |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.16                                        | 0.09      |  | 1               | 20                                         | 100                                                                    | 300                         |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00012                                     | 0.00023   |  | 0.0021          | 0.04                                       | 1                                                                      | 5                           |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                                     | 70                          |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.034                                       | 0.0042    |  | 0.088           | 2                                          | 50                                                                     | 100                         |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                                    | 2                           |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.045                                       | 0.04      |  | 0.41            | 0.5                                        | 10                                                                     | 30                          |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0084                                      | 0.0022    |  | 0.031           | 0.4                                        | 10                                                                     | 40                          |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0034                                      | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                                     | 50                          |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.013                                       | 0.0083    |  | 0.089           | 0.06                                       | 0.7                                                                    | 5                           |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                    | 0.0058    |  | < 0.050         | 0.1                                        | 0.5                                                                    | 7                           |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.13                                        | 0.017     |  | 0.34            | 4                                          | 50                                                                     | 200                         |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.9                                         | < 4.0     |  | 18              | 800                                        | 15000                                                                  | 25000                       |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                        | 0.49      |  | 4.8             | 10                                         | 150                                                                    | 500                         |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 280                                         | 61        |  | 950             | 1000                                       | 20000                                                                  | 50000                       |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 440                                         | 140       |  | 1900            | 4000                                       | 60000                                                                  | 100000                      |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                                      | -                           |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.1                                        | 7.6       |  | 81.1            | 500                                        | 800                                                                    | 1000                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                                        |                             |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                                        |                             |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.8                                        |           |  |                 |                                            |                                                                        |                             |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                            |                                                                        |                             |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 83                                          |           |  |                 |                                            |                                                                        |                             |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17                                          |           |  |                 |                                            |                                                                        |                             |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                            |                                                                        |                             |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.291                                       |           |  |                 |                                            |                                                                        |                             |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.27                                        |           |  |                 |                                            |                                                                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                                        |                             |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                                        |                             |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | ** = MCERTS accredited                     |                                                                        |                             |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                             |           |  |                 |                                            |                                                                        |                             |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                            |                                                                        |                             |
| 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.                                                                                                                                                                                                                                                                             |                                             |           |  |                 |                                            |                                                                        |                             |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                         |                                             |           |  |                 |                                            |                                                               |                          |
|------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                           | 25-058798                                   |           |  |                 |                                            |                                                               |                          |
|                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                      |                                             |           |  |                 | Client: EARTHWORKT                         |                                                               |                          |
|                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
| Location                                                                                             | Dove Valley Park                            |           |  |                 |                                            |                                                               |                          |
| Lab Reference (Sample Number)                                                                        | 734325                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |
|                                                                                                      |                                             |           |  |                 | Limits                                     |                                                               |                          |
| Sampling Date                                                                                        | 28/10/2025                                  |           |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                            | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |           |  |                 |                                            |                                                               |                          |
| Depth (m)                                                                                            | None Supplied                               |           |  |                 |                                            |                                                               |                          |
| Solid Waste Analysis                                                                                 |                                             |           |  |                 |                                            |                                                               |                          |
| TOC (%)**                                                                                            | 2.4                                         |           |  |                 | 3%                                         | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                              | 5.8                                         |           |  |                 | --                                         | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                       | < 10                                        |           |  |                 | 6000                                       | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                | 0.72                                        |           |  |                 | 1                                          | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                       | 91                                          |           |  |                 | 500                                        | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                           | 91.9                                        |           |  |                 | 100                                        | --                                                            | --                       |
| pH (units)**                                                                                         | 7.6                                         |           |  |                 | --                                         | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                             | 5                                           |           |  |                 | --                                         | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                              | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |
|                                                                                                      | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |
| Arsenic *                                                                                            | < 0.0020                                    | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                             | 25                       |
| Barium *                                                                                             | 0.13                                        | 0.066     |  | 0.74            | 20                                         | 100                                                           | 300                      |
| Cadmium *                                                                                            | < 0.00010                                   | < 0.00010 |  | < 0.0010        | 0.04                                       | 1                                                             | 5                        |
| Chromium *                                                                                           | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                            | 70                       |
| Copper *                                                                                             | 0.023                                       | 0.0043    |  | 0.065           | 2                                          | 50                                                            | 100                      |
| Mercury *                                                                                            | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                           | 2                        |
| Molybdenum *                                                                                         | 0.02                                        | 0.015     |  | 0.15            | 0.5                                        | 10                                                            | 30                       |
| Nickel *                                                                                             | 0.0041                                      | 0.0011    |  | 0.015           | 0.4                                        | 10                                                            | 40                       |
| Lead *                                                                                               | < 0.0017                                    | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                            | 50                       |
| Antimony *                                                                                           | 0.011                                       | 0.0071    |  | 0.076           | 0.06                                       | 0.7                                                           | 5                        |
| Selenium *                                                                                           | < 0.0050                                    | 0.0062    |  | 0.055           | 0.1                                        | 0.5                                                           | 7                        |
| Zinc *                                                                                               | 0.1                                         | 0.0073    |  | 0.18            | 4                                          | 50                                                            | 200                      |
| Chloride *                                                                                           | 5.4                                         | < 4.0     |  | 19              | 800                                        | 15000                                                         | 25000                    |
| Fluoride*                                                                                            | 0.58                                        | 0.61      |  | 6.1             | 10                                         | 150                                                           | 500                      |
| Sulphate *                                                                                           | 250                                         | 53        |  | 760             | 1000                                       | 20000                                                         | 50000                    |
| TDS*                                                                                                 | 390                                         | 140       |  | 1700            | 4000                                       | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                  | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                             | -                        |
| DOC                                                                                                  | 11.3                                        | 8.3       |  | 86.9            | 500                                        | 800                                                           | 1000                     |
|                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
| Leach Test Information                                                                               |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
| Stone Content (%)                                                                                    | 43.8                                        |           |  |                 |                                            |                                                               |                          |
| Sample Mass (kg)                                                                                     | 2                                           |           |  |                 |                                            |                                                               |                          |
| Dry Matter (%)                                                                                       | 81                                          |           |  |                 |                                            |                                                               |                          |
| Moisture (%)                                                                                         | 19                                          |           |  |                 |                                            |                                                               |                          |
| Stage 1                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| Volume Eluate L2 (litres)                                                                            | 0.301                                       |           |  |                 |                                            |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                         | 0.2                                         |           |  |                 |                                            |                                                               |                          |
|                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. |                                             |           |  |                 |                                            |                                                               |                          |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|--------------------|---------------|---------------|------------------------------------------------|
| 734316            | 1583/210/X6 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734317            | 1583/211/W8 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734318            | 1583/212/W7 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734319            | 1583/213/W8 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734320            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel                |
| 734321            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 734322            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734323            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 734324            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 734325            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and loam with vegetation and stones |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |
| pH at 20°C in soil                                 | Determination of pH in soil by addition of water followed by electrometric measurement                                                              | In-house method                                                            | L005B         | W                  | MCERTS               |
| Total organic carbon in soil                       | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L023B         | D                  | MCERTS               |
| PCB's By GC-MS in soil                             | Determination of PCB by extraction with hexane followed by GC-MS                                                                                    | In-house method based on USEPA 8082                                        | L027B         | D                  | MCERTS               |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                          | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| TDS in WAC leachate (BS EN 12457-3 Prep)                      | Determination of total dissolved solids in leachate by electrometric measurement                                                       | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L031B         | W                  | ISO 17025            |
| Fluoride in WAC leachate (BS EN 12457-3 Prep)                 | Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode                           | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L033B         | W                  | ISO 17025            |
| DOC in WAC leachate (BS EN 12457-3 Prep)                      | Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser                                                         | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L037B         | W                  | NONE                 |
| Metals in WAC leachate (BS EN 12457-3 Prep)                   | Determination of metals in leachate by acidification followed by ICP-OES                                                               | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Sulphate in WAC leachate (BS EN 12457-3 Prep)                 | Determination of sulphate in leachate by acidification followed by ICP-OES                                                             | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Two stage WAC leachate preparation                            | Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg                                                                   | BS EN 12457-3-2002                                                                                     | L043B         | W                  | ISO 17025            |
| Acid neutralisation capacity of soil                          | Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe                               | In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance  | L046B         | W                  | NONE                 |
| Loss on ignition of soil @ 450°C                              | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                         | In-house method                                                                                        | L047-PL       | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| BTEX and/or Volatile organic compounds in soil                | Determination of volatile organic compounds in soil by headspace GC-MS                                                                 | In-house method based on USEPA 8260                                                                    | L073B         | W                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | NONE                 |
| Phenol Index in WAC leachate (BS EN 12457-3 Prep)             | Determination of monohydric phenols in leachate by continuous flow analyser                                                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | ISO 17025            |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                          | Analytical Method Description                                   | Analytical Method Reference                    | Method number | Wet / Dry Analysis | Accreditation Status |
|-----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------|--------------------|----------------------|
| Chloride in WAC leachate (BS EN 12457-3 Prep) | Determination of Chloride colorimetrically by discrete analyser | In-house based on MEWAM Method ISBN 0117516260 | L082B         | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| -       | Operator - underscore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Earthworks Testing Ltd  
Unit 6, Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

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

**t:**  
**e:** hs@earthworkstesting.co.uk  
subcontractors@earthworkstesting.co.uk

**t:** 01923 225404  
**f:** 01923 237404  
**e:** info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-058798**

|                             |                                    |                                                        |            |
|-----------------------------|------------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Dove Valley Park                   | <b>Samples received on:</b>                            | 29/10/2025 |
| <b>Your job number:</b>     | C1583                              | <b>Samples instructed on/<br/>Analysis started on:</b> | 29/10/2025 |
| <b>Your order number:</b>   | SC1164                             | <b>Analysis completed by:</b>                          | 12/11/2025 |
| <b>Report Issue Number:</b> | 1                                  | <b>Report issued on:</b>                               | 12/11/2025 |
| <b>Samples Analysed:</b>    | 10 soil samples - 6 2stage samples |                                                        |            |

*Joanna Biolik*

**Signed:**

Joanna Biolik  
Senior Reporting Specialist  
**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       |
| air       | - once the analysis is complete |

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.  
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734316            | 734317            | 734318            | 734319            | 734320                                   |
|-----------------------------------------|-------|-------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/210/X6 - L5 | C1583/211/W8 - L1 | C1583/212/W7 - L2 | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Water Matrix                            |       |                         |                           | N/A               | N/A               | N/A               | N/A               | N/A                                      |
| Depth (m)                               |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Date Sampled                            |       |                         |                           | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025        | 28/10/2025                               |
| Time Taken                              |       |                         |                           | None Supplied     | None Supplied     | None Supplied     | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                   |                   |                   |                   |                                          |

|                               |    |      |      |      |     |       |       |       |
|-------------------------------|----|------|------|------|-----|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | 21.2 | 8.7 | < 0.1 | < 0.1 | < 0.1 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | 24.9 | 3   | 0.8   | 1.4   | -     |
| Moisture Content              | %  | 0.01 | NONE | 11   | 15  | 16    | 13    | 14    |
| Total mass of sample received | kg | 0.1  | NONE | 1    | 1   | 1     | 0.9   | 2     |

#### General Inorganics

|                                                                         |             |        |        |        |        |        |         |     |
|-------------------------------------------------------------------------|-------------|--------|--------|--------|--------|--------|---------|-----|
| pH (L005B)                                                              | pH Units    | N/A    | MCERTS | -      | -      | -      | -       | 7.7 |
| pH (L099)                                                               | pH Units    | N/A    | MCERTS | 7.2    | 6.8    | 6.8    | 6.9     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg       | 50     | MCERTS | 380    | 570    | 350    | 250     | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %           | 0.005  | MCERTS | 0.038  | 0.057  | 0.035  | 0.025   | -   |
| Acid Soluble Sulphur                                                    | %           | 0.003  | NONE   | 0.013  | 0.019  | 0.012  | 0.008   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg       | 2.5    | MCERTS | 260    | 310    | 150    | 120     | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l        | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l        | 1.25   | MCERTS | 131    | 155    | 73.7   | 58      | -   |
| Water Soluble Sulphur                                                   | %           | 0.0001 | NONE   | 0.0088 | 0.0104 | 0.0049 | 0.0039  | -   |
| Total Potential Sulphate                                                | mg/kg       | 30     | NONE   | 500    | 640    | 370    | 270     | -   |
| Total Potential Sulphate                                                | %           | 0.003  | NONE   | 0.05   | 0.064  | 0.037  | 0.027   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg       | 20     | NONE   | 110    | 71     | 21     | < 20    | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %           | 0.002  | NONE   | 0.011  | 0.007  | 0.002  | < 0.002 | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l        | 0.5    | MCERTS | 7.9    | 8.7    | 4.3    | 11      | -   |
| Total Sulphur                                                           | mg/kg       | 50     | MCERTS | 170    | 210    | 120    | 89      | -   |
| Total Sulphur                                                           | %           | 0.005  | MCERTS | 0.017  | 0.021  | 0.012  | 0.009   | -   |
| Organic Matter (automated)                                              | %           | 0.1    | MCERTS | 0.2    | 0.3    | 0.3    | < 0.1   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %           | 0.1    | MCERTS | -      | -      | -      | -       | 1.2 |
| Loss on Ignition @ 450°C                                                | %           | 0.2    | MCERTS | -      | -      | -      | -       | 3.9 |
| Acid Neutralisation Capacity                                            | ±/- mmol/kg | -9999  | NONE   | -      | -      | -      | -       | 2.7 |

#### Speciated PAHs

|                        |       |      |           |   |   |   |   |      |
|------------------------|-------|------|-----------|---|---|---|---|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | - | - | 1.1  |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.15 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 5    |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 6.1  |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 36   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | - | - | 37   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | - | - | 29   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 12   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | - | - | 11   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 8.7  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | - | - | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | - | - | 7    |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.5  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | - | - | - | 0.61 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | - | - | 2.8  |
| Coronene               | mg/kg | 0.05 | NONE      | - | - | - | - | 0.53 |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

|                                         |                   |                         |                           |                   |                                          |
|-----------------------------------------|-------------------|-------------------------|---------------------------|-------------------|------------------------------------------|
| Lab Sample Number                       | 734316            | 734317                  | 734318                    | 734319            | 734320                                   |
| Sample Reference                        | C1583/210/X6 - L5 | C1583/211/W8 - L1       | C1583/212/W7 - L2         | C1583/213/W8 - L3 | C1583/214/Marl Pit Deep Trial Hole 5 (A) |
| Sample Number                           | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Water Matrix                            | N/A               | N/A                     | N/A                       | N/A               | N/A                                      |
| Depth (m)                               | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Date Sampled                            | 28/10/2025        | 28/10/2025              | 28/10/2025                | 28/10/2025        | 28/10/2025                               |
| Time Taken                              | None Supplied     | None Supplied           | None Supplied             | None Supplied     | None Supplied                            |
| Analytical Parameter<br>(Soil Analysis) | Units             | Test Limit of detection | Test Accreditation Status |                   |                                          |

#### Total PAH

|                   |       |      |      |   |   |   |   |     |
|-------------------|-------|------|------|---|---|---|---|-----|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | - | - | - | - | 176 |
|-------------------|-------|------|------|---|---|---|---|-----|

#### Petroleum Hydrocarbons

|                                                      |       |    |      |   |   |   |   |      |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|
| Mineral Oil (EC10 - EC40) <small>EH_CU_10_AL</small> | mg/kg | 10 | NONE | - | - | - | - | < 10 |
|------------------------------------------------------|-------|----|------|---|---|---|---|------|

#### VOCs

|              |       |   |        |   |   |   |   |       |
|--------------|-------|---|--------|---|---|---|---|-------|
| Benzene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | - | - | - | - | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0 |

|            |       |    |        |   |   |   |   |      |
|------------|-------|----|--------|---|---|---|---|------|
| Total BTEX | µg/kg | 10 | MCERTS | - | - | - | - | < 10 |
|------------|-------|----|--------|---|---|---|---|------|

#### PCBs by GC-MS

|                  |       |       |        |   |   |   |   |         |
|------------------|-------|-------|--------|---|---|---|---|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | - | - | - | - | < 0.001 |

|            |       |       |        |   |   |   |   |         |
|------------|-------|-------|--------|---|---|---|---|---------|
| Total PCBs | mg/kg | 0.007 | MCERTS | - | - | - | - | < 0.007 |
|------------|-------|-------|--------|---|---|---|---|---------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734321                                   | 734322                                   | 734323                                     | 734324                                     | 734325                                     |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) | C1583/219/Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Water Matrix                            |       |                         |                           | N/A                                      | N/A                                      | N/A                                        | N/A                                        | N/A                                        |
| Depth (m)                               |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Date Sampled                            |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                              |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                            |                                            |                                            |

|                               |    |      |      |       |       |    |      |      |
|-------------------------------|----|------|------|-------|-------|----|------|------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | 32 | 35.8 | 43.8 |
| Mass of stone > 2 mm          | %  | 0.1  | NONE | -     | -     | -  | -    | -    |
| Moisture Content              | %  | 0.01 | NONE | 14    | 14    | 25 | 17   | 19   |
| Total mass of sample received | kg | 0.1  | NONE | 2     | 2     | 2  | 2    | 2    |

#### General Inorganics

|                                                                         |             |        |        |     |     |     |     |     |
|-------------------------------------------------------------------------|-------------|--------|--------|-----|-----|-----|-----|-----|
| pH (L005B)                                                              | pH Units    | N/A    | MCERTS | 7.7 | 7.6 | 7.5 | 7.6 | 7.6 |
| pH (L099)                                                               | pH Units    | N/A    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | mg/kg       | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphate as SO <sub>4</sub>                                       | %           | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Acid Soluble Sulphur                                                    | %           | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg       | 2.5    | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l        | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)                     | mg/l        | 1.25   | MCERTS | -   | -   | -   | -   | -   |
| Water Soluble Sulphur                                                   | %           | 0.0001 | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | mg/kg       | 30     | NONE   | -   | -   | -   | -   | -   |
| Total Potential Sulphate                                                | %           | 0.003  | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | mg/kg       | 20     | NONE   | -   | -   | -   | -   | -   |
| Oxidisable Sulphide (as SO <sub>4</sub> )                               | %           | 0.002  | NONE   | -   | -   | -   | -   | -   |
| Water Soluble Chloride (2:1) (leachate equivalent)                      | mg/l        | 0.5    | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | mg/kg       | 50     | MCERTS | -   | -   | -   | -   | -   |
| Total Sulphur                                                           | %           | 0.005  | MCERTS | -   | -   | -   | -   | -   |
| Organic Matter (automated)                                              | %           | 0.1    | MCERTS | -   | -   | -   | -   | -   |
| Total Organic Carbon (TOC) – Manual                                     | %           | 0.1    | MCERTS | 1.5 | 1.5 | 3.8 | 2.9 | 2.4 |
| Loss on Ignition @ 450°C                                                | %           | 0.2    | MCERTS | 4.1 | 4.3 | 9.8 | 8.5 | 5.8 |
| Acid Neutralisation Capacity                                            | ±/- mmol/kg | -9999  | NONE   | 2.8 | 1.9 | 3.7 | 7.9 | 5   |

#### Speciated PAHs

|                        |       |      |           |      |      |      |      |      |
|------------------------|-------|------|-----------|------|------|------|------|------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.73 | 0.51 | 0.1  | 1.2  | 0.12 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.09 | 0.2  | 0.09 | 0.22 | 0.17 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 3.8  | 1.9  | 0.23 | 6.3  | 0.82 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 4.4  | 2.2  | 0.19 | 5.3  | 0.82 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 28   | 15   | 2.6  | 38   | 10   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 9.7  | 4.5  | 0.7  | 13   | 2.3  |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 36   | 20   | 6.1  | 45   | 18   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 29   | 17   | 5.6  | 38   | 16   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 15   | 8.2  | 3    | 20   | 7.3  |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 14   | 7.7  | 3.5  | 17   | 7.4  |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 12   | 7.5  | 4.6  | 18   | 8.8  |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 4.9  | 2.9  | 1.7  | 8.1  | 3.8  |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 9.8  | 6.2  | 3.4  | 16   | 7.1  |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 3.2  | 2.3  | 1.8  | 6.3  | 3.6  |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 1.1  | 0.66 | 0.38 | 1.5  | 0.59 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 3.6  | 2.4  | 2.1  | 6.4  | 4    |
| Coronene               | mg/kg | 0.05 | NONE      | 0.77 | 0.55 | 0.37 | 1.6  | 0.89 |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park  
Your Order No: SC1164

| Lab Sample Number                       |       |                         |                           | 734321                                   | 734322                                   | 734323                                      | 734324                                      | 734325                                      |
|-----------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sample Reference                        |       |                         |                           | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217//Marl Pit - Deep Trial Hole 5 (D) | C1583/218//Marl Pit - Deep Trial Hole 5 (E) | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                           |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Water Matrix                            |       |                         |                           | N/A                                      | N/A                                      | N/A                                         | N/A                                         | N/A                                         |
| Depth (m)                               |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Date Sampled                            |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                  | 28/10/2025                                  | 28/10/2025                                  |
| Time Taken                              |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                               | None Supplied                               | None Supplied                               |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                             |                                             |                                             |

#### Total PAH

|                   |       |      |      |     |      |      |     |      |
|-------------------|-------|------|------|-----|------|------|-----|------|
| Total WAC-17 PAHs | mg/kg | 0.85 | NONE | 177 | 98.3 | 36.4 | 240 | 91.9 |
|-------------------|-------|------|------|-----|------|------|-----|------|

#### Petroleum Hydrocarbons

|                                                  |       |    |      |    |    |     |     |    |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|
| Mineral Oil (EC10 - EC40) <sub>EH_CU_10_AL</sub> | mg/kg | 10 | NONE | 31 | 28 | 410 | 220 | 91 |
|--------------------------------------------------|-------|----|------|----|----|-----|-----|----|

#### VOCs

|              |       |   |        |       |       |       |       |       |
|--------------|-------|---|--------|-------|-------|-------|-------|-------|
| Benzene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene      | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | < 8.0 | < 8.0 |
| o-Xylene     | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

|            |       |    |        |      |      |      |      |      |
|------------|-------|----|--------|------|------|------|------|------|
| Total BTEX | µg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 | < 10 |
|------------|-------|----|--------|------|------|------|------|------|

#### PCBs by GC-MS

|                  |       |       |        |         |         |         |         |         |
|------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.005   | 0.009   |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.007   | 0.02    | 0.065   |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | 0.011   | 0.024   |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | 0.002   | < 0.001 | 0.014   | 0.038   | 0.19    |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | 0.001   | < 0.001 | 0.012   | 0.039   | 0.21    |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | 0.01    | 0.032   | 0.22    |

|            |       |       |        |         |         |       |      |      |
|------------|-------|-------|--------|---------|---------|-------|------|------|
| Total PCBs | mg/kg | 0.007 | MCERTS | < 0.007 | < 0.007 | 0.044 | 0.15 | 0.72 |
|------------|-------|-------|--------|---------|---------|-------|------|------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     |       |                         |                           | 734320                                   | 734321                                   | 734322                                   | 734323                                     | 734324                                     |
|-------------------------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                                      |       |                         |                           | C1583/214/Marl Pit Deep Trial Hole 5 (A) | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Water Matrix                                          |       |                         |                           | N/A                                      | N/A                                      | N/A                                      | N/A                                        | N/A                                        |
| Depth (m)                                             |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Date Sampled                                          |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                                            |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                          |                                            |                                            |

|                         |   |     |           |       |       |       |       |       |
|-------------------------|---|-----|-----------|-------|-------|-------|-------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 79    | 77    | 77    | 68    | 75    |
| Moisture of sample      | % | N/A | ISO 17025 | 26    | 29    | 31    | 46    | 33    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.16  | 0.18  | 0.18  | 0.25  | 0.27  |
| Volume used first stage | l | N/A | ISO 17025 | 0.304 | 0.299 | 0.296 | 0.269 | 0.291 |

#### General 2:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 68        | 49        | 88        | 280       | 280       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    | < 0.16    | < 0.16    | < 0.16    | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 19        | 13        | 7.8       | 6.9       | 4.9       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.41      | 0.45      | 0.41      | 0.41      | 0.41      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 34.5      | 26.4      | 32.2      | 16.3      | 11.1      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 130       | 120       | 170       | 420       | 440       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0031    | < 0.0020  | 0.0023    |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | 0.00012   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | 0.001     | 0.00061   | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  | 0.0034    |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | < 0.0050  | < 0.0050  | 0.0059    | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.058     | 0.022     | 0.047     | 0.032     | 0.034     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0023    | 0.0012    | 0.0022    | 0.0064    | 0.0084    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.022     | 0.021     | 0.022     | 0.061     | 0.13      |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | 0.0092    | 0.013     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.007     | 0.018     | 0.0072    | 0.021     | 0.045     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.083     | 0.083     | 0.11      | 0.2       | 0.16      |

#### General 8:1

|                             |      |        |           |           |           |           |           |           |
|-----------------------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 140       | 84        | 190       | 200       | 61        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    | < 0.13    | < 0.13    | < 0.13    | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     | < 4.0     | < 4.0     | < 4.0     | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.1       | 0.25      | 0.09      | 0.22      | 0.49      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.1       | 9.7       | 7.5       | 4         | 7.6       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 190       | 130       | 240       | 290       | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 | < 0.00010 | 0.00018   | < 0.00010 | 0.00023   |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | 0.0022    | < 0.0017  | < 0.0017  | < 0.0017  | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  | 0.006     | 0.0087    | < 0.0050  | 0.0058    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.006     | 0.0058    | 0.039     | 0.003     | 0.0042    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0082    | 0.0023    | 0.013     | 0.0067    | 0.0022    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.09      | 0.022     | 0.15      | 0.051     | 0.017     |
| Antimony                    | mg/l | 0.002  | ISO 17025 | < 0.0020  | < 0.0020  | 0.0033    | 0.0054    | 0.0083    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | < 0.0014  | 0.002     | < 0.0014  | 0.0051    | 0.04      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.25      | 0.13      | 0.3       | 0.14      | 0.09      |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

| Lab Sample Number                                     |       |                         |                           | 734320                                   | 734321                                   | 734322                                   | 734323                                     | 734324                                     |
|-------------------------------------------------------|-------|-------------------------|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|
| Sample Reference                                      |       |                         |                           | C1583/214/Marl Pit Deep Trial Hole 5 (A) | C1583/215/Marl Pit Deep Trial Hole 5 (B) | C1583/216/Marl Pit Deep Trial Hole 5 (C) | C1583/217/Marl Pit - Deep Trial Hole 5 (D) | C1583/218/Marl Pit - Deep Trial Hole 5 (E) |
| Sample Number                                         |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Water Matrix                                          |       |                         |                           | N/A                                      | N/A                                      | N/A                                      | N/A                                        | N/A                                        |
| Depth (m)                                             |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Date Sampled                                          |       |                         |                           | 28/10/2025                               | 28/10/2025                               | 28/10/2025                               | 28/10/2025                                 | 28/10/2025                                 |
| Time Taken                                            |       |                         |                           | None Supplied                            | None Supplied                            | None Supplied                            | None Supplied                              | None Supplied                              |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                          |                                          |                                          |                                            |                                            |

#### General 10:1

|                             |       |       |      |          |          |          |          |          |
|-----------------------------|-------|-------|------|----------|----------|----------|----------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 1400     | 800      | 1800     | 2100     | 950      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   | < 0.50   | < 0.50   | < 0.50   | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 29       | 26       | 17       | 22       | 18       |
| Fluoride                    | mg/kg | 0.2   | NONE | 1.3      | 2.7      | 1.2      | 2.5      | 4.8      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 106      | 114      | 100      | 57.7     | 81.1     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1800     | 1300     | 2300     | 3100     | 1900     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | < 0.020  | < 0.020  | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 | < 0.0010 | 0.0016   | < 0.0010 | 0.0021   |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | 0.02     | < 0.017  | < 0.017  | < 0.017  | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | < 0.050  | 0.054    | 0.078    | < 0.050  | < 0.050  |
| Copper                      | mg/kg | 0.007 | NONE | 0.11     | 0.075    | 0.4      | 0.071    | 0.088    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.077    | 0.022    | 0.12     | 0.067    | 0.031    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.84     | 0.22     | 1.3      | 0.53     | 0.34     |
| Antimony                    | mg/kg | 0.02  | NONE | < 0.020  | < 0.020  | 0.029    | 0.06     | 0.089    |
| Molybdenum                  | mg/kg | 0.014 | NONE | < 0.014  | 0.036    | < 0.014  | 0.074    | 0.41     |
| Barium                      | mg/kg | 0.012 | NONE | 2.3      | 1.3      | 2.8      | 1.5      | 1        |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                            |                              |                                                   |
|-------------------------------------------------------|-------|----------------------------|------------------------------|---------------------------------------------------|
| Lab Sample Number                                     |       |                            |                              | 734325                                            |
| Sample Reference                                      |       |                            |                              | C1583/219//Marl<br>Pit - Deep Trial<br>Hole 5 (F) |
| Sample Number                                         |       |                            |                              | None Supplied                                     |
| Water Matrix                                          |       |                            |                              | N/A                                               |
| Depth (m)                                             |       |                            |                              | None Supplied                                     |
| Date Sampled                                          |       |                            |                              | 28/10/2025                                        |
| Time Taken                                            |       |                            |                              | None Supplied                                     |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                                                   |

|                         |   |     |           |       |
|-------------------------|---|-----|-----------|-------|
| Dry matter              | % | 0.1 | ISO 17025 | 78    |
| Moisture of sample      | % | N/A | ISO 17025 | 28    |
| Recovered volume A      | l | N/A | ISO 17025 | 0.2   |
| Volume used first stage | l | N/A | ISO 17025 | 0.301 |

#### General 2:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 250       |
| Monohydric Phenols          | mg/l | 0.16   | ISO 17025 | < 0.16    |
| Chloride                    | mg/l | 4      | ISO 17025 | 5.4       |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.58      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 11.3      |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 390       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.00070 |
| Selenium                    | mg/l | 0.005  | ISO 17025 | < 0.0050  |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.023     |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0041    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.1       |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.011     |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.02      |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.13      |

#### General 8:1

|                             |      |        |           |           |
|-----------------------------|------|--------|-----------|-----------|
| Sulphate as SO <sub>4</sub> | mg/l | 0.045  | ISO 17025 | 53        |
| Monohydric Phenols          | mg/l | 0.13   | ISO 17025 | < 0.13    |
| Chloride                    | mg/l | 4      | ISO 17025 | < 4.0     |
| Fluoride                    | mg/l | 0.05   | ISO 17025 | 0.61      |
| Dissolved Organic Carbon    | mg/l | 0.1    | NONE      | 8.3       |
| Total Dissolved Solids      | mg/l | 6      | ISO 17025 | 140       |
| Arsenic                     | mg/l | 0.002  | ISO 17025 | < 0.0020  |
| Cadmium                     | mg/l | 0.0001 | ISO 17025 | < 0.00010 |
| Chromium                    | mg/l | 0.0006 | ISO 17025 | < 0.00060 |
| Lead                        | mg/l | 0.0017 | ISO 17025 | < 0.0017  |
| Mercury                     | mg/l | 0.0007 | ISO 17025 | < 0.0007  |
| Selenium                    | mg/l | 0.005  | ISO 17025 | 0.0062    |
| Copper                      | mg/l | 0.0007 | ISO 17025 | 0.0043    |
| Nickel                      | mg/l | 0.0009 | ISO 17025 | 0.0011    |
| Zinc                        | mg/l | 0.0009 | ISO 17025 | 0.0073    |
| Antimony                    | mg/l | 0.002  | ISO 17025 | 0.0071    |
| Molybdenum                  | mg/l | 0.0014 | ISO 17025 | 0.015     |
| Barium                      | mg/l | 0.0012 | ISO 17025 | 0.066     |

Analytical Report Number: 25-058798  
Project / Site name: Dove Valley Park

Your Order No: SC1164

|                                                       |       |                         |                           |                                             |
|-------------------------------------------------------|-------|-------------------------|---------------------------|---------------------------------------------|
| Lab Sample Number                                     |       |                         |                           | 734325                                      |
| Sample Reference                                      |       |                         |                           | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |
| Sample Number                                         |       |                         |                           | None Supplied                               |
| Water Matrix                                          |       |                         |                           | N/A                                         |
| Depth (m)                                             |       |                         |                           | None Supplied                               |
| Date Sampled                                          |       |                         |                           | 28/10/2025                                  |
| Time Taken                                            |       |                         |                           | None Supplied                               |
| Analytical Parameter<br>(Two-stage Leachate Analysis) | Units | Test Limit of detection | Test Accreditation Status |                                             |

#### General 10:1

|                             |       |       |      |          |
|-----------------------------|-------|-------|------|----------|
| Sulphate as SO <sub>4</sub> | mg/kg | 0.45  | NONE | 760      |
| Monohydric Phenols          | mg/kg | 0.5   | NONE | < 0.50   |
| Chloride                    | mg/kg | 15    | NONE | 19       |
| Fluoride                    | mg/kg | 0.2   | NONE | 6.1      |
| Dissolved Organic Carbon    | mg/kg | 1     | NONE | 86.9     |
| Total Dissolved Solids      | mg/kg | 60    | NONE | 1700     |
| Arsenic                     | mg/kg | 0.02  | NONE | < 0.020  |
| Cadmium                     | mg/kg | 0.001 | NONE | < 0.0010 |
| Chromium                    | mg/kg | 0.006 | NONE | < 0.0060 |
| Lead                        | mg/kg | 0.017 | NONE | < 0.017  |
| Mercury                     | mg/kg | 0.007 | NONE | < 0.0070 |
| Selenium                    | mg/kg | 0.05  | NONE | 0.055    |
| Copper                      | mg/kg | 0.007 | NONE | 0.065    |
| Nickel                      | mg/kg | 0.009 | NONE | 0.015    |
| Zinc                        | mg/kg | 0.009 | NONE | 0.18     |
| Antimony                    | mg/kg | 0.02  | NONE | 0.076    |
| Molybdenum                  | mg/kg | 0.014 | NONE | 0.15     |
| Barium                      | mg/kg | 0.012 | NONE | 0.74     |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                   |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|---------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                                |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                   |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734320                                     |           |  |                 | Landfill Waste Acceptance Criteria                |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Inert Waste Landfill                              | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/214/Marl Pit - Deep Trial Hole 5 (A) |           |  |                 |                                                   |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                   |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                   |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.2                                        |           |  |                 | 3%                                                | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9                                        |           |  |                 | --                                                | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                              | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                 | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 500                                               | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 176                                        |           |  |                 | 100                                               | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                                | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.7                                        |           |  |                 | --                                                | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test         |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)        |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                               | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.25      |  | 2.3             | 20                                                | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                              | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                               | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.058                                      | 0.006     |  | 0.11            | 2                                                 | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                              | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.007                                      | < 0.0014  |  | < 0.014         | 0.5                                               | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0023                                     | 0.0082    |  | 0.077           | 0.4                                               | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | 0.0022    |  | 0.02            | 0.5                                               | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                              | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | < 0.0050  |  | < 0.050         | 0.1                                               | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.09      |  | 0.84            | 4                                                 | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19                                         | < 4.0     |  | 29              | 800                                               | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.1       |  | 1.3             | 10                                                | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68                                         | 140       |  | 1400            | 1000                                              | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                                        | 190       |  | 1800            | 4000                                              | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                 | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34.5                                       | 8.2       |  | 106             | 500                                               | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                   |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                   |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                   |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                   |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                   |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.304                                      |           |  |                 |                                                   |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16                                       |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | * = UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                   |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                   |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                   |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                   |                                                                                |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|---------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                                |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                   |                                                                                |                             |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734321                                     |           |  |                 | Landfill Waste Acceptance Criteria                |                                                                                |                             |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Limits                                            |                                                                                |                             |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/215/Marl Pit - Deep Trial Hole 5 (B) |           |  |                 | Inert Waste<br>Landfill                           | Stable Non-<br>reactive<br>HAZARDOUS<br>waste in non-<br>hazardous<br>Landfill | Hazardous<br>Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                   |                                                                                |                             |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                   |                                                                                |                             |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                                | 5%                                                                             | 6%                          |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.1                                        |           |  |                 | --                                                | --                                                                             | 10%                         |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                              | --                                                                             | --                          |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                 | --                                                                             | --                          |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 31                                         |           |  |                 | 500                                               | --                                                                             | --                          |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 177                                        |           |  |                 | 100                                               | --                                                                             | --                          |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.7                                        |           |  |                 | --                                                | >6                                                                             | --                          |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 2.8                                        |           |  |                 | --                                                | To be evaluated                                                                | To be evaluated             |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test         |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)        |                                                                                |                             |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.5                                               | 2                                                                              | 25                          |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.083                                      | 0.13      |  | 1.3             | 20                                                | 100                                                                            | 300                         |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | < 0.00010 |  | < 0.0010        | 0.04                                              | 1                                                                              | 5                           |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                  | < 0.00060 |  | < 0.0060        | 0.5                                               | 10                                                                             | 70                          |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.022                                      | 0.0058    |  | 0.075           | 2                                                 | 50                                                                             | 100                         |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                              | 0.2                                                                            | 2                           |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.018                                      | 0.002     |  | 0.036           | 0.5                                               | 10                                                                             | 30                          |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0012                                     | 0.0023    |  | 0.022           | 0.4                                               | 10                                                                             | 40                          |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                               | 10                                                                             | 50                          |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | < 0.0020  |  | < 0.020         | 0.06                                              | 0.7                                                                            | 5                           |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.006     |  | 0.054           | 0.1                                               | 0.5                                                                            | 7                           |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.021                                      | 0.022     |  | 0.22            | 4                                                 | 50                                                                             | 200                         |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13                                         | < 4.0     |  | 26              | 800                                               | 15000                                                                          | 25000                       |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.45                                       | 0.25      |  | 2.7             | 10                                                | 150                                                                            | 500                         |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49                                         | 84        |  | 800             | 1000                                              | 20000                                                                          | 50000                       |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120                                        | 130       |  | 1300            | 4000                                              | 60000                                                                          | 100000                      |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                 | -                                                                              | -                           |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.4                                       | 9.7       |  | 114             | 500                                               | 800                                                                            | 1000                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                   |                                                                                |                             |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                   |                                                                                |                             |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                   |                                                                                |                             |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                   |                                                                                |                             |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                   |                                                                                |                             |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.299                                      |           |  |                 |                                                   |                                                                                |                             |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | * = UKAS accredited (liquid eluate analysis only) |                                                                                |                             |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                            |                                                                                |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                   |                                                                                |                             |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non hazardous. |                                            |           |  |                 |                                                   |                                                                                |                             |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                   |                                                                                |                             |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                   |                                                                                |                             |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email: reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |           |  |                 |                                                  |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|--|-----------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                  |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 | Client: EARTHWORKT                               |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                           |           |  |                 |                                                  |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734322                                     |           |  |                 | Landfill Waste Acceptance Criteria               |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                 |           |  |                 | Limits                                           |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/216/Marl Pit - Deep Trial Hole 5 (C) |           |  |                 | Inert Waste Landfill                             | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                              |           |  |                 |                                                  |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 |                                                  |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5                                        |           |  |                 | 3%                                               | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.3                                        |           |  |                 | --                                               | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                       |           |  |                 | 6000                                             | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | < 0.007                                    |           |  |                 | 1                                                | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 28                                         |           |  |                 | 500                                              | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 98.3                                       |           |  |                 | 100                                              | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                        |           |  |                 | --                                               | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 1.9                                        |           |  |                 | --                                               | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | 2:1                                        | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test        |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/l                                       | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0031                                     | < 0.0020  |  | < 0.020         | 0.5                                              | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.11                                       | 0.3       |  | 2.8             | 20                                               | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                  | 0.00018   |  | 0.0016          | 0.04                                             | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.001                                      | < 0.00060 |  | < 0.0060        | 0.5                                              | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.047                                      | 0.039     |  | 0.4             | 2                                                | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                  | < 0.0007  |  | < 0.0070        | 0.01                                             | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0072                                     | < 0.0014  |  | < 0.014         | 0.5                                              | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0022                                     | 0.013     |  | 0.12            | 0.4                                              | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                   | < 0.0017  |  | < 0.017         | 0.5                                              | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0020                                   | 0.0033    |  | 0.029           | 0.06                                             | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                   | 0.0087    |  | 0.078           | 0.1                                              | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.022                                      | 0.15      |  | 1.3             | 4                                                | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.8                                        | < 4.0     |  | 17              | 800                                              | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                       | 0.09      |  | 1.2             | 10                                               | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88                                         | 190       |  | 1800            | 1000                                             | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 170                                        | 240       |  | 2300            | 4000                                             | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                     | < 0.13    |  | < 0.50          | 1                                                | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32.2                                       | 7.5       |  | 100             | 500                                              | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | < 0.1                                      |           |  |                 |                                                  |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                          |           |  |                 |                                                  |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                                         |           |  |                 |                                                  |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14                                         |           |  |                 |                                                  |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |           |  |                 |                                                  |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.296                                      |           |  |                 |                                                  |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.18                                       |           |  |                 |                                                  |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |           |  |                 |                                                  |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | *= UKAS accredited (liquid eluate analysis only) |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                            |           |  |                 | ** = MCERTS accredited                           |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                            |           |  |                 |                                                  |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                            |           |  |                 |                                                  |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                            |           |  |                 |                                                  |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                         |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                            |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734323                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/217//Marl Pit - Deep Trial Hole 5 (D) |           |  |                 |                                            |                                                               |                          |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                            |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.8                                         |           |  |                 | 3%                                         | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.8                                         |           |  |                 | --                                         | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                       | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.044                                       |           |  |                 | 1                                          | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_10_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 410                                         |           |  |                 | 500                                        | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 36.4                                        |           |  |                 | 100                                        | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.5                                         |           |  |                 | --                                         | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 3.7                                         |           |  |                 | --                                         | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                    | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2                                         | 0.14      |  | 1.5             | 20                                         | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                   | < 0.00010 |  | < 0.0010        | 0.04                                       | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00061                                     | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.032                                       | 0.003     |  | 0.071           | 2                                          | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.021                                       | 0.0051    |  | 0.074           | 0.5                                        | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0064                                      | 0.0067    |  | 0.067           | 0.4                                        | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                    | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0092                                      | 0.0054    |  | 0.06            | 0.06                                       | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0059                                      | < 0.0050  |  | < 0.050         | 0.1                                        | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.061                                       | 0.051     |  | 0.53            | 4                                          | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.9                                         | < 4.0     |  | 22              | 800                                        | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                        | 0.22      |  | 2.5             | 10                                         | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 280                                         | 200       |  | 2100            | 1000                                       | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 420                                         | 290       |  | 3100            | 4000                                       | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16.3                                        | 4         |  | 57.7            | 500                                        | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32                                          |           |  |                 |                                            |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                            |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 75                                          |           |  |                 |                                            |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25                                          |           |  |                 |                                            |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                            |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.269                                       |           |  |                 |                                            |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                        |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 | ** = MCERTS accredited                     |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non hazardous. |                                             |           |  |                 |                                            |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                            |                                                               |                          |
| 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.                                                                                                                                                                                                                                                                             |                                             |           |  |                 |                                            |                                                               |                          |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email: reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|--|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                            |                                                               |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                         |                                                               |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |  |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                            |                                                               |                          |  |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734324                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |  |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Limits                                     |                                                               |                          |  |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/218//Marl Pit - Deep Trial Hole 5 (E) |           |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                            |                                                               |                          |  |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |  |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.9                                         |           |  |                 | 3%                                         | 5%                                                            | 6%                       |  |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.5                                         |           |  |                 | --                                         | --                                                            | 10%                      |  |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                       | --                                                            | --                       |  |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.15                                        |           |  |                 | 1                                          | --                                                            | --                       |  |
| Mineral Oil (mg/kg) EH_1D_CU_AL                                                                                                                                                                                                                                                                                                                                                                                                                   | 220                                         |           |  |                 | 500                                        | --                                                            | --                       |  |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 240                                         |           |  |                 | 100                                        | --                                                            | --                       |  |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                         |           |  |                 | --                                         | >6                                                            | --                       |  |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 7.9                                         |           |  |                 | --                                         | To be evaluated                                               | To be evaluated          |  |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |  |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |  |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0023                                      | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                             | 25                       |  |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.16                                        | 0.09      |  | 1               | 20                                         | 100                                                           | 300                      |  |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00012                                     | 0.00023   |  | 0.0021          | 0.04                                       | 1                                                             | 5                        |  |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                            | 70                       |  |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.034                                       | 0.0042    |  | 0.088           | 2                                          | 50                                                            | 100                      |  |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                           | 2                        |  |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.045                                       | 0.04      |  | 0.41            | 0.5                                        | 10                                                            | 30                       |  |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0084                                      | 0.0022    |  | 0.031           | 0.4                                        | 10                                                            | 40                       |  |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0034                                      | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                            | 50                       |  |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.013                                       | 0.0083    |  | 0.089           | 0.06                                       | 0.7                                                           | 5                        |  |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                    | 0.0058    |  | < 0.050         | 0.1                                        | 0.5                                                           | 7                        |  |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.13                                        | 0.017     |  | 0.34            | 4                                          | 50                                                            | 200                      |  |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.9                                         | < 4.0     |  | 18              | 800                                        | 15000                                                         | 25000                    |  |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41                                        | 0.49      |  | 4.8             | 10                                         | 150                                                           | 500                      |  |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 280                                         | 61        |  | 950             | 1000                                       | 20000                                                         | 50000                    |  |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 440                                         | 140       |  | 1900            | 4000                                       | 60000                                                         | 100000                   |  |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                             | -                        |  |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.1                                        | 7.6       |  | 81.1            | 500                                        | 800                                                           | 1000                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |  |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |  |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.8                                        |           |  |                 |                                            |                                                               |                          |  |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                            |                                                               |                          |  |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 83                                          |           |  |                 |                                            |                                                               |                          |  |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17                                          |           |  |                 |                                            |                                                               |                          |  |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                            |                                                               |                          |  |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.291                                       |           |  |                 |                                            |                                                               |                          |  |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.27                                        |           |  |                 |                                            |                                                               |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |  |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |  |
| Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |  |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                             |           |  |                 |                                            |                                                               |                          |  |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                            |                                                               |                          |  |
| 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.                                                                                                                                                                                                                                                                             |                                             |           |  |                 |                                            |                                                               |                          |  |

## i2 Analytical

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |           |  |                 |                                            |                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25-058798                                   |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 | Client: EARTHWORKT                         |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Location                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dove Valley Park                            |           |  |                 |                                            |                                                               |                          |
| Lab Reference (Sample Number)                                                                                                                                                                                                                                                                                                                                                                                                                     | 734325                                      |           |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |
| Sampling Date                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28/10/2025                                  |           |  |                 | Limits                                     |                                                               |                          |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                         | C1583/219//Marl Pit - Deep Trial Hole 5 (F) |           |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                         | None Supplied                               |           |  |                 |                                            |                                                               |                          |
| Solid Waste Analysis                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| TOC (%)**                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.4                                         |           |  |                 | 3%                                         | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.8                                         |           |  |                 | --                                         | --                                                            | 10%                      |
| BTEX (µg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                                    | < 10                                        |           |  |                 | 6000                                       | --                                                            | --                       |
| Sum of PCBs (mg/kg)**                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.72                                        |           |  |                 | 1                                          | --                                                            | --                       |
| Mineral Oil (mg/kg) <small>EH_1D_CU_AL</small>                                                                                                                                                                                                                                                                                                                                                                                                    | 91                                          |           |  |                 | 500                                        | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                        | 91.9                                        |           |  |                 | 100                                        | --                                                            | --                       |
| pH (units)**                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.6                                         |           |  |                 | --                                         | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                                                                                                                                                                                                                                                                                                                          | 5                                           |           |  |                 | --                                         | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2:1                                         | 8:1       |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                                                                                                                                                                                                                                                                                                           | mg/l                                        | mg/l      |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |
| Arsenic *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.0020                                    | < 0.0020  |  | < 0.020         | 0.5                                        | 2                                                             | 25                       |
| Barium *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.13                                        | 0.066     |  | 0.74            | 20                                         | 100                                                           | 300                      |
| Cadmium *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00010                                   | < 0.00010 |  | < 0.0010        | 0.04                                       | 1                                                             | 5                        |
| Chromium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.00060                                   | < 0.00060 |  | < 0.0060        | 0.5                                        | 10                                                            | 70                       |
| Copper *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.023                                       | 0.0043    |  | 0.065           | 2                                          | 50                                                            | 100                      |
| Mercury *                                                                                                                                                                                                                                                                                                                                                                                                                                         | < 0.00070                                   | < 0.0007  |  | < 0.0070        | 0.01                                       | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.02                                        | 0.015     |  | 0.15            | 0.5                                        | 10                                                            | 30                       |
| Nickel *                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0041                                      | 0.0011    |  | 0.015           | 0.4                                        | 10                                                            | 40                       |
| Lead *                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 0.0017                                    | < 0.0017  |  | < 0.017         | 0.5                                        | 10                                                            | 50                       |
| Antimony *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.011                                       | 0.0071    |  | 0.076           | 0.06                                       | 0.7                                                           | 5                        |
| Selenium *                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 0.0050                                    | 0.0062    |  | 0.055           | 0.1                                        | 0.5                                                           | 7                        |
| Zinc *                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.1                                         | 0.0073    |  | 0.18            | 4                                          | 50                                                            | 200                      |
| Chloride *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.4                                         | < 4.0     |  | 19              | 800                                        | 15000                                                         | 25000                    |
| Fluoride*                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.58                                        | 0.61      |  | 6.1             | 10                                         | 150                                                           | 500                      |
| Sulphate *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250                                         | 53        |  | 760             | 1000                                       | 20000                                                         | 50000                    |
| TDS*                                                                                                                                                                                                                                                                                                                                                                                                                                              | 390                                         | 140       |  | 1700            | 4000                                       | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                                                                                                                                                                                                                                                                                                                                               | < 0.16                                      | < 0.13    |  | < 0.50          | 1                                          | -                                                             | -                        |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.3                                        | 8.3       |  | 86.9            | 500                                        | 800                                                           | 1000                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Leach Test Information                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Stone Content (%)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 43.8                                        |           |  |                 |                                            |                                                               |                          |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                           |           |  |                 |                                            |                                                               |                          |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 81                                          |           |  |                 |                                            |                                                               |                          |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19                                          |           |  |                 |                                            |                                                               |                          |
| Stage 1                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |           |  |                 |                                            |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.301                                       |           |  |                 |                                            |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                         |           |  |                 |                                            |                                                               |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |           |  |                 |                                            |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation                                                                                                                                                                                                                                                                                                                              |                                             |           |  |                 |                                            |                                                               |                          |
| Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous. |                                             |           |  |                 |                                            |                                                               |                          |
| Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.                                                                                                                                                                                                                                                                                               |                                             |           |  |                 |                                            |                                                               |                          |
| 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 : 25-058798**

**Project / Site name: Dove Valley Park**

\* 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 *                           |
|-------------------|--------------------|---------------|---------------|------------------------------------------------|
| 734316            | 1583/210/X6 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734317            | 1583/211/W8 - L    | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734318            | 1583/212/W7 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734319            | 1583/213/W8 - L    | None Supplied | None Supplied | Brown clay and sand with gravel                |
| 734320            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel                |
| 734321            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and vegetation |
| 734322            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with gravel and stones     |
| 734323            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and sand with gravel and stones     |
| 734324            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown loam and clay with vegetation and stones |
| 734325            | Marl Pit - Deep Tr | None Supplied | None Supplied | Brown clay and loam with vegetation and stones |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                       | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Organic matter (Automated) in soil                 | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L009B         | D                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically (up to 30°C)                                                                                           | In-house method                                                            | L019B         | W                  | NONE                 |
| 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. | L019B         | D                  | NONE                 |
| Acid Soluble Sulphur in soil                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method.                                                           | L038B         | D                  | NONE                 |
| Oxidisable Sulphide in soil                        | Determination of oxidisable sulphide in soil by calculation from total sulphur and total sulphate                                                   | In-house method based on TRL 447                                           | L038B         | D                  | NONE                 |
| Total sulphate (as SO <sub>4</sub> in soil)        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES                                                              | In-house method                                                            | L038B         | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction)                                                                                                  | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total Sulphur in soil                              | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | MCERTS               |
| Total potential sulphate in soil                   | Determination of total potential sulphate in soil by calculation from total sulphur                                                                 | By calculation - In-house method based on TRL 447 report.                  | L038B         | D                  | NONE                 |
| Water Soluble Sulphur in soil                      | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES                                 | In-house method                                                            | L038B         | D                  | NONE                 |
| Chloride, water soluble, in soil                   | Determination of Chloride colorimetrically by discrete analyser                                                                                     | In-house method                                                            | L082B         | 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               |
| Soil Descriptions                                  | Textural classification                                                                                                                             | In-house method                                                            | L019B         | W                  | NONE                 |
| pH at 20°C in soil                                 | Determination of pH in soil by addition of water followed by electrometric measurement                                                              | In-house method                                                            | L005B         | W                  | MCERTS               |
| Total organic carbon in soil                       | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method                                                            | L023B         | D                  | MCERTS               |
| PCB's By GC-MS in soil                             | Determination of PCB by extraction with hexane followed by GC-MS                                                                                    | In-house method based on USEPA 8082                                        | L027B         | D                  | MCERTS               |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                          | Analytical Method Description                                                                                                          | Analytical Method Reference                                                                            | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| TDS in WAC leachate (BS EN 12457-3 Prep)                      | Determination of total dissolved solids in leachate by electrometric measurement                                                       | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L031B         | W                  | ISO 17025            |
| Fluoride in WAC leachate (BS EN 12457-3 Prep)                 | Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode                           | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L033B         | W                  | ISO 17025            |
| DOC in WAC leachate (BS EN 12457-3 Prep)                      | Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser                                                         | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.       | L037B         | W                  | NONE                 |
| Metals in WAC leachate (BS EN 12457-3 Prep)                   | Determination of metals in leachate by acidification followed by ICP-OES                                                               | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Sulphate in WAC leachate (BS EN 12457-3 Prep)                 | Determination of sulphate in leachate by acidification followed by ICP-OES                                                             | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed        | L039B         | W                  | ISO 17025            |
| Two stage WAC leachate preparation                            | Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg                                                                   | BS EN 12457-3-2002                                                                                     | L043B         | W                  | ISO 17025            |
| Acid neutralisation capacity of soil                          | Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe                               | In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance  | L046B         | W                  | NONE                 |
| Loss on ignition of soil @ 450°C                              | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                         | In-house method                                                                                        | L047-PL       | D                  | MCERTS               |
| Speciated PAHs and/or Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270                                                                    | L064B         | D                  | MCERTS               |
| BTEX and/or Volatile organic compounds in soil                | Determination of volatile organic compounds in soil by headspace GC-MS                                                                 | In-house method based on USEPA 8260                                                                    | L073B         | W                  | MCERTS               |
| Total petroleum hydrocarbons by GC-FID in soil                | Determination of total petroleum hydrocarbons in soil by GC-FID                                                                        | In-house method                                                                                        | L076B         | D                  | NONE                 |
| Phenol Index in WAC leachate (BS EN 12457-3 Prep)             | Determination of monohydric phenols in leachate by continuous flow analyser                                                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton | L080-PL       | W                  | ISO 17025            |

**Analytical Report Number : 25-058798**

**Project / Site name: Dove Valley Park**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)**

**Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                          | Analytical Method Description                                   | Analytical Method Reference                    | Method number | Wet / Dry Analysis | Accreditation Status |
|-----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------|--------------------|----------------------|
| Chloride in WAC leachate (BS EN 12457-3 Prep) | Determination of Chloride colorimetrically by discrete analyser | In-house based on MEWAM Method ISBN 0117516260 | L082B         | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| -       | Operator - underscore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

## Certificate of Analysis

**Client:** Earthworks Testing Ltd

**Project:** 25110354

**Quote:** BEC251043149 V1.2

**Project Ref:** C1583

**Site:** Dove Valley Park

**Contact:** Helen Slinn

**Address:** Unit 6 Eco Business Park  
Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

**E-Mail:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)

**Phone:** 1

**No. Samples Received:** 6

**Date Received:** 05/11/2025

**Analysis Completed:** 21/11/2025

**Date Issued:** 21/11/2025

**Report Type:** Version 02

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator  
Julie Dickinson  
01283 204 384  
[Julie.Dickinson@socotec.co.uk](mailto:Julie.Dickinson@socotec.co.uk)

**Project Number: 25110354****Client:** Earthworks Testing Ltd**Date Issued:** 21/11/2025**Project Name:** C1583 - Dove Valley Park**Samples Analysed**

| <b><u>Text ID</u></b> | <b><u>Sample Reference</u></b> | <b><u>Sampling Date</u></b> | <b><u>Sample Type</u></b> | <b><u>Sample Description</u></b> |
|-----------------------|--------------------------------|-----------------------------|---------------------------|----------------------------------|
| 25110354-001          | C1583/214-Trial Hole 5A        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |
| 25110354-002          | C1583/215-Trial Hole 5B        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |
| 25110354-003          | C1583/216-Trial Hole 5C        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |
| 25110354-004          | C1583/217-Trial Hole 5D        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |
| 25110354-005          | C1583/218-Trial Hole 5E        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |
| 25110354-006          | C1583/219-Trial Hole 5F        | 28/10/2025 00:00:00         | SOLID                     | Silt Sample                      |

## Analysis Results

|                |                                                 | SOCOTEC Sample ID: |                | 25110354-001     | 25110354-002     | 25110354-003     | 25110354-004     | 25110354-005     |
|----------------|-------------------------------------------------|--------------------|----------------|------------------|------------------|------------------|------------------|------------------|
|                |                                                 | Sampling Date:     |                | 28/10/2025 00:00 | 28/10/2025 00:00 | 28/10/2025 00:00 | 28/10/2025 00:00 | 28/10/2025 00:00 |
|                |                                                 | Customer ID:       |                | C1583/214-Trial  | C1583/215-Trial  | C1583/216-Trial  | C1583/217-Trial  | C1583/218-Trial  |
| Method Code    | Analysis                                        | MDL                | Accred.        | Hole 5A          | Hole 5B          | Hole 5C          | Hole 5D          | Hole 5E          |
| CLANDPREP      | Total Moisture at 35°C                          | 0.1 %              | N              | 27.2             | 24.8             | 27.5             | 24.6             | 24.1             |
|                | Major Constituents                              | -                  | N              | SILT             | SILT             | SILT             | SILT             | SILT             |
|                | Minor Constituents                              | -                  | N              | Miscellaneous    | Miscellaneous    | Miscellaneous    | Miscellaneous    | Miscellaneous    |
|                | Miscellaneous Constituents                      | -                  | N              | Miscellaneous    | Miscellaneous    | Miscellaneous    | Miscellaneous    | Miscellaneous    |
|                | Colour of Material                              | -                  | N              | Dark Brown       | Dark Brown       | Dark Brown       | Dark Brown       | Dark Brown       |
| SUB035         | Asbestos Identification                         | -                  | N              | CH               | NAIIS            | NAIIS            | NAIIS            | NAIIS            |
| SUB035         | Asbestos Stage 2                                | 0.001 %            | N              | 0.1607           |                  |                  |                  |                  |
| AAR            | Alkali/Acid Reserve                             | 0.1 g/100g NaOH    | N <sup>A</sup> | <0.1             | <0.1             | <0.1             | <0.1             | <0.1             |
| SFAPI          | Free Cyanide                                    | 0.5 mg/kg          | M <sup>A</sup> | <0.7             | <0.7             | <0.7             | <0.7             | <0.7             |
| SFAPI          | Phenol Index                                    | 0.5 mg/kg          | U <sup>A</sup> | 1.0              | <0.7             | <0.7             | <0.7             | <0.7             |
| ICPMSS         | Arsenic as As                                   | 0.3 mg/kg          | M <sup>A</sup> | 36.5             | 41.9             | 28.4             | 27.3             | 25.4             |
| ICPSOIL        | Beryllium as Be                                 | 0.1 mg/kg          | U <sup>A</sup> | 2.13             | 1.48             | 1.09             | 1.53             | 1.74             |
| ICPMSS         | Cadmium as Cd                                   | 0.2 mg/kg          | M <sup>A</sup> | 3.3              | 14.0             | 2.5              | 2.1              | 3.2              |
| ICPMSS         | Total Chromium as Cr                            | 1.2 mg/kg          | M <sup>A</sup> | 118.0            | 99.4             | 174.7            | 87.9             | 96.5             |
| CALC_CR3       | Chromium (III)                                  | 1.2 mg/kg          | N <sup>A</sup> | 118              | 99.4             | 175              | 87.9             | 96.5             |
| KONENS         | Chromium (VI) as Cr                             | 0.1 mg/kg          | N <sup>A</sup> | <0.1             | <0.1             | <0.1             | <0.1             | <0.1             |
| ICPMSS         | Copper as Cu                                    | 1.6 mg/kg          | M <sup>A</sup> | 976.7            | 467.8            | 244.8            | 227.4            | 408.3            |
| ICPMSS         | Lead as Pb                                      | 0.7 mg/kg          | M <sup>A</sup> | 906.6            | 1289             | 1512             | 1279             | 3155             |
| ICPMSS         | Mercury as Hg                                   | 0.5 mg/kg          | M <sup>A</sup> | <0.5             | <0.5             | <0.5             | <0.5             | <0.5             |
| ICPMSS         | Nickel as Ni                                    | 2 mg/kg            | M <sup>A</sup> | <20.0            | <20.0            | 78.1             | 71.2             | 75.3             |
| ICPMSS         | Selenium as Se                                  | 0.5 mg/kg          | M <sup>A</sup> | 0.9              | 1.0              | 0.7              | 1.0              | 1.1              |
| ICPMSS         | Vanadium as V                                   | 0.6 mg/kg          | N <sup>A</sup> | 44.5             | 41.0             | 42.0             | 42.0             | 44.3             |
| ICPMSS         | Zinc as Zn                                      | 16 mg/kg           | M <sup>A</sup> | 1029             | 769.7            | 763.5            | 626.0            | 775.8            |
| ICPBOR         | Boron as B                                      | 0.5 mg/kg          | M <sup>A</sup> | 4.1              | 1.2              | 4.2              | 1.5              | 4.1              |
| GROHSA         | >C6-C10 (HS_1D_Total)                           | 0.2 mg/kg          | M <sup>A</sup> | 1.66             | 1.37             | 1.50             | 0.593            | 0.740            |
| TPHCALC        | >C6-C40 (with >C10-C40 SCU) (HS+EH_CU_1D_Total) | 10.2 mg/kg         | N <sup>A</sup> | 2930             | 1920             | 4400             | 2620             | 1320             |
| TPHFIDUS (SCU) | >C10-C12 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg            | N <sup>A</sup> | 200              | 99.4             | 331              | 163              | 49.2             |
|                | >C10-C40 (SCU) (EH_CU_1D_Total)                 | 20 mg/kg           | N <sup>A</sup> | 2930             | 1920             | 4400             | 2620             | 1320             |
|                | >C12-C16 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg            | N <sup>A</sup> | 134              | 90.9             | 171              | 129              | 73.0             |
|                | >C16-C21 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg            | N <sup>A</sup> | 396              | 249              | 502              | 321              | 182              |
|                | >C21-C35 (SCU) (EH_CU_1D_Total)                 | 10 mg/kg           | N <sup>A</sup> | 2020             | 1350             | 3030             | 1830             | 926              |
| PAHMSUS        | Acenaphthene                                    | 0.08 mg/kg         | M <sup>A</sup> | 3.06             | 0.56             | 1.41             | 1.33             | 1.12             |
|                | Acenaphthylene                                  | 0.08 mg/kg         | U <sup>A</sup> | 0.25             | <0.11            | 0.12             | 0.12             | 0.11             |
|                | Anthracene                                      | 0.08 mg/kg         | U <sup>A</sup> | 3.55             | 1.03             | 2.24             | 2.25             | 2.80             |
|                | Benzo[a]anthracene                              | 0.08 mg/kg         | M <sup>A</sup> | 3.95             | 2.00             | 3.66             | 3.32             | 4.49             |
|                | Benzo[a]pyrene                                  | 0.08 mg/kg         | M <sup>A</sup> | 3.66             | 1.90             | 3.43             | 3.21             | 3.93             |
|                | Benzo[b]fluoranthene                            | 0.08 mg/kg         | M <sup>A</sup> | 4.38             | 2.46             | 4.46             | 4.13             | 4.84             |
|                | Benzo[g,h,i]perylene                            | 0.08 mg/kg         | M <sup>A</sup> | 1.91             | 1.06             | 1.91             | 1.80             | 2.05             |
|                | Benzo[k]fluoranthene                            | 0.08 mg/kg         | M <sup>A</sup> | 1.76             | 1.00             | 1.72             | 1.64             | 1.96             |
|                | Chrysene                                        | 0.08 mg/kg         | M <sup>A</sup> | 3.52             | 1.86             | 3.30             | 2.97             | 3.96             |
|                | Dibenzo[a,h]anthracene                          | 0.08 mg/kg         | M <sup>A</sup> | 0.49             | 0.28             | 0.48             | 0.46             | 0.51             |
|                | Fluoranthene                                    | 0.08 mg/kg         | M <sup>A</sup> | 11.5             | 5.41             | 10.6             | 8.92             | 12.6             |
|                | Fluorene                                        | 0.08 mg/kg         | M <sup>A</sup> | 3.01             | 0.47             | 1.32             | 1.19             | 0.99             |
|                | Indeno[1,2,3-cd]pyrene                          | 0.08 mg/kg         | M <sup>A</sup> | 2.10             | 1.15             | 2.10             | 1.92             | 2.17             |
|                | Naphthalene                                     | 0.08 mg/kg         | M <sup>A</sup> | 5.38             | 0.31             | 0.57             | 0.65             | 0.37             |
|                | Phenanthrene                                    | 0.08 mg/kg         | M <sup>A</sup> | 12.7             | 2.89             | 7.65             | 6.30             | 7.61             |
|                | Pyrene                                          | 0.08 mg/kg         | M <sup>A</sup> | 9.45             | 4.60             | 8.76             | 7.37             | 10.3             |
|                | Total PAH 16                                    | 1.28 mg/kg         | U <sup>A</sup> | 70.7             | 27.1             | 53.8             | 47.6             | 59.8             |
| SUB026         | Interpretive Report (Solids)                    | -                  | N              | See Attached     | See Attached     | See Attached     | See Attached     | See Attached     |

**Analysis Results**

SOCOTEC Sample ID: 25110354-006

Sampling Date: 28/10/2025 00:00

Customer ID: C1583/219-Trial

| Method Code    | Analysis                                        | MDL             | Accred. | Hole 5F       |
|----------------|-------------------------------------------------|-----------------|---------|---------------|
| CLANDPREP      | Total Moisture at 35°C                          | 0.1 %           | N       | 23.6          |
|                | Major Constituents                              | -               | N       | SILT          |
|                | Minor Constituents                              | -               | N       | Miscellaneous |
|                | Miscellaneous Constituents                      | -               | N       | Miscellaneous |
|                | Colour of Material                              | -               | N       | Dark Brown    |
| SUB035         | Asbestos Identification                         | -               | N       | NAIIS         |
| AAR            | Alkali/Acid Reserve                             | 0.1 g/100g NaOH | N^      | <0.1          |
| SFAPI          | Free Cyanide                                    | 0.5 mg/kg       | M^      | <0.7          |
| SFAPI          | Phenol Index                                    | 0.5 mg/kg       | U^      | <0.7          |
| ICPMSS         | Arsenic as As                                   | 0.3 mg/kg       | M^      | 23.2          |
| ICPSOIL        | Beryllium as Be                                 | 0.1 mg/kg       | U^      | 1.70          |
| ICPMSS         | Cadmium as Cd                                   | 0.2 mg/kg       | M^      | 2.3           |
| ICPMSS         | Total Chromium as Cr                            | 1.2 mg/kg       | M^      | 84.7          |
| CALC_CR3       | Chromium (III)                                  | 1.2 mg/kg       | N^      | 84.7          |
| KONENS         | Chromium (VI) as Cr                             | 0.1 mg/kg       | N^      | <0.1          |
| ICPMSS         | Copper as Cu                                    | 1.6 mg/kg       | M^      | 186.2         |
| ICPMSS         | Lead as Pb                                      | 0.7 mg/kg       | M^      | 670.6         |
| ICPMSS         | Mercury as Hg                                   | 0.5 mg/kg       | M^      | <0.5          |
| ICPMSS         | Nickel as Ni                                    | 2 mg/kg         | M^      | 60.7          |
| ICPMSS         | Selenium as Se                                  | 0.5 mg/kg       | M^      | 0.7           |
| ICPMSS         | Vanadium as V                                   | 0.6 mg/kg       | N^      | 46.8          |
| ICPMSS         | Zinc as Zn                                      | 16 mg/kg        | M^      | 585.2         |
| ICPBOR         | Boron as B                                      | 0.5 mg/kg       | M^      | 2.9           |
| GROHSA         | >C6-C10 (HS_1D_Total)                           | 0.2 mg/kg       | M^      | 0.935         |
| TPHCALC        | >C6-C40 (with >C10-C40 SCU) (HS+EH_CU_1D_Total) | 10.2 mg/kg      | N^      | 1510          |
| TPHFIDUS (SCU) | >C10-C12 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg         | N^      | 50.1          |
|                | >C10-C40 (SCU) (EH_CU_1D_Total)                 | 20 mg/kg        | N^      | 1510          |
|                | >C12-C16 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg         | N^      | 117           |
|                | >C16-C21 (SCU) (EH_CU_1D_Total)                 | 4 mg/kg         | N^      | 214           |
|                | >C21-C35 (SCU) (EH_CU_1D_Total)                 | 10 mg/kg        | N^      | 1030          |
| PAHMSUS        | Acenaphthene                                    | 0.08 mg/kg      | M^      | 1.14          |
|                | Acenaphthylene                                  | 0.08 mg/kg      | U^      | <0.11         |
|                | Anthracene                                      | 0.08 mg/kg      | U^      | 2.40          |
|                | Benzo[a]anthracene                              | 0.08 mg/kg      | M^      | 3.48          |
|                | Benzo[a]pyrene                                  | 0.08 mg/kg      | M^      | 3.14          |
|                | Benzo[b]fluoranthene                            | 0.08 mg/kg      | M^      | 3.91          |
|                | Benzo[g,h,i]perylene                            | 0.08 mg/kg      | M^      | 1.71          |
|                | Benzo[k]fluoranthene                            | 0.08 mg/kg      | M^      | 1.55          |
|                | Chrysene                                        | 0.08 mg/kg      | M^      | 2.98          |
|                | Dibenzo[a,h]anthracene                          | 0.08 mg/kg      | M^      | 0.42          |
|                | Fluoranthene                                    | 0.08 mg/kg      | M^      | 10.1          |
|                | Fluorene                                        | 0.08 mg/kg      | M^      | 1.11          |
|                | Indeno[1,2,3-cd]pyrene                          | 0.08 mg/kg      | M^      | 1.81          |
|                | Naphthalene                                     | 0.08 mg/kg      | M^      | 0.64          |
|                | Phenanthrene                                    | 0.08 mg/kg      | M^      | 6.76          |
|                | Pyrene                                          | 0.08 mg/kg      | M^      | 8.28          |
|                | Total PAH 16                                    | 1.28 mg/kg      | U^      | 49.6          |
| SUB026         | Interpretive Report (Solids)                    | -               | N       | See Attached  |



The Testing Lab PLC  
James Road, Adwick le Street  
Doncaster, DN6 7HH  
TEL: 08001 777 264

E-mail: info@thetestinglab.eu Web: www.thetestinglab.eu



## CERTIFICATE OF ANALYSIS OF ASBESTOS IN SOILS

JOB NO: 146702/1/1

### CLIENT DETAILS:

Client: SOCOTEC UK LIMITED For the attention of: SOCOTEC Purchasing  
Client Address: Socotec House, Bretby Business Park, Ashby Road, Burton-upon-Trent, DE15 0YZ  
Site Address: Socotec

### SAMPLE DETAILS:

TTL Reference: J331484-25110354 Del 06-11-25-S No. Samples Reported: 6  
Date of Sample Receipt: 6 Nov 2025 Date of Analysis: 12 Nov 2025, 7 Nov 2025  
Sample Taken By: Client

### LABORATORY RESULTS:

| Aslab ID  | Client Sample Reference | Qualitative              | Quantitative % | Soil Matrix |
|-----------|-------------------------|--------------------------|----------------|-------------|
| 146702/01 | 25110354-001            | FREE FIBRES<br>CHRYSTILE | 0.1607         | Soil        |
| 146702/02 | 25110354-002            | NAD                      | -              | Soil        |
| 146702/03 | 25110354-003            | NAD                      | -              | Soil        |
| 146702/04 | 25110354-004            | NAD                      | -              | Soil        |
| 146702/05 | 25110354-005            | NAD                      | -              | Soil        |
| 146702/06 | 25110354-006            | NAD                      | -              | Soil        |

Key: NAD - No Asbestos Detected in this sample

Method: Samples of materials, referenced as shown above, have been analysed qualitatively and or quantitatively subject to Customer requirements to determine the presence of asbestos fibres. Fibres in the sample were identified using a stereo microscope, polarised light and dispersion staining in accordance with in-house Procedure MQP118 based on Appendix 2 of HSG 248 'Asbestos: The analyst's guide'.  
Disclaimer: Opinions and interpretations, including the description of material type, are outside the scope of our UKAS accreditation. Results apply only to the sample(s) listed in the table above. No responsibility is accepted for errors which may have arisen during sampling or transportation and responsibility cannot be taken for the accuracy, representative nature and location of samples taken by external customers. This test report shall not be reproduced except in full without our prior written approval. Records shall be held securely and electronically for a minimum of 6 years and samples retained for a minimum of 6 months.

Analyst(s): ELLIE WILLIAMS

Analyst Signature(s):

Analyst(s): CONNOR BAXTER

Analyst Signature(s):

Approved by: (Approval should be from Laboratory Manager or other authorised personnel)

Name: ALISA EGLITE

Position: LAB ANALYST

Authorised Signature:

Report Issue Date: 12 November 2025

Page 1 of 1

MQF3206 ISSUE NO.03 Issue Date: 04/2023

Ref: LO/NOR5001-221/001/RP Rev00

21 November 2025

**Earthworks Testing Ltd**  
Unit 6 Eco Business Park  
Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ



**SOCOTEC**

SOCOTEC UK Ltd  
SOOCOTEC Central  
Leofric Business Park  
Progress Close  
Coventry  
CV3 2TF

Tel: +44 (0)2475 310700

**For the attention of Helen Slinn**

### **EARTHWORKS TESTING LTD, DOVE VALLEY PARK – (B001) LABORATORY ANALYSIS AND INDICATIVE WASTE CLASSIFICATION**

Six soil samples were collected by Earthworks Testing Ltd and submitted to SOCOTEC UK Ltd for laboratory analysis and indicative waste classification. The samples were described by the SOCOTEC laboratory as comprising '*dark brown SILT with miscellaneous inclusions*'. The analytical results included in the laboratory report 25110354 Version 01 (Interim), as provided by the SOCOTEC laboratory on 19 November 2025, have been used for the current assessment.

The HazWasteOnline toolkit was used to undertake a Hazard Assessment Screen, to establish whether the soils represented by individual samples should be considered as either hazardous or non-hazardous waste. This classification process is in accordance with technical guidance document WM3, Guidance on the classification and assessment of waste (V1.2 GB 2021), published jointly by Natural Resources Wales, the Scottish Environment Protection Agency, the Environment Agency and the Northern Ireland Environment Agency. However, due to the fact that the samples were taken by the client, SOCOTEC cannot confirm whether the principles of representative sampling set out in WM3 have been followed.

Asbestos was detected in the form of chrysotile free fibres in sample 'C1583/214-Trial Hole 5A', at a concentration of 0.1607 % w/w. This concentration is above the hazardous waste threshold of 0.1% w/w, and, therefore, sample 'C1583/214-Trial Hole 5A' is classified as hazardous waste with regards to asbestos.

Asbestos was not detected in any of the other five samples analysed. However, it should be noted that the SOCOTEC Consultancy team, authoring this report, did not collect the samples or inspect the materials and, therefore, cannot confirm if there was any visual evidence of potential asbestos containing material within the wider volume of waste soils that was not sampled. Based on the laboratory analysis only, the samples 'C1583/215-Trial Hole 5B', 'C1583/216-Trial Hole 5C', 'C1583/217-Trial Hole 5D', 'C1583/218-Trial Hole 5E' and 'C1583/219-Trial Hole 5F' can be classified as non-hazardous waste with regards to asbestos.

The HazWasteOnline output sheet is appended to this letter, and the indicative waste classification of the samples is summarised below. Waste Acceptance Criteria (WAC) testing has not been undertaken at this time.

SOCOTEC UK Limited  
Registered Office: SOCOTEC House, Bretby Business Park, Ashby Road, Burton upon Trent, DE15 0YZ

Incorporated in England : 02880501

[www.socotec.co.uk](http://www.socotec.co.uk)

| Sample reference        | Indicative Waste Classification                       | List of Waste Code | Landfill type (based on classification assessment)                     |
|-------------------------|-------------------------------------------------------|--------------------|------------------------------------------------------------------------|
| C1583/214-Trial Hole 5A | Hazardous, chemically and due to asbestos free fibres | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |
| C1583/215-Trial Hole 5B | Hazardous                                             | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |
| C1583/216-Trial Hole 5C | Hazardous                                             | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |
| C1583/217-Trial Hole 5D | Hazardous                                             | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |
| C1583/218-Trial Hole 5E | Hazardous                                             | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |
| C1583/219-Trial Hole 5F | Hazardous                                             | 17 05 03*          | Hazardous WAC testing required before disposal at a hazardous landfill |

The following assumptions and limitations apply to this assessment:

- The SOCOTEC Consultancy team (authoring this report) has not sampled or inspected the materials. This indicative waste classification assessment is based on the laboratory analysis results only.
- The List of Waste Code applied to the classification is based on information provided by the client on the nature and origin of the material.
- The number of samples required to adequately characterise waste soils, stones and dredging spoil is dependent on the nature and volume of waste to be disposed of. As the total volume of material to be removed from site is not known by SOCOTEC, the waste classification provided is considered to be indicative only.
- It is not confirmed by SOCOTEC that the samples are representative of the material requiring classification.
- The analysis suite was scheduled by the client with no input from SOCOTEC's Consultancy Team.
- This report provides only a high level assessment. Where the indicative waste classification indicates hazardous waste, it may be possible to reduce this to non-hazardous waste subject to further assessment and/or sampling and analysis. Further assessment may also be possible where there are exceedances of WAC thresholds. We would be happy to discuss options if this is the case.
- Depending on the volume to be removed, the receiving landfill may request that additional samples are collected from the materials to be disposed of and it is ultimately the decision of the waste receiver as to whether they will accept the material.
- All wastes removed from site should be consigned, transported and disposed of in full accordance with all relevant UK legislation. The waste receiver should be provided with a copy of this report, including the appended laboratory results and HazWasteOnline output.

SOCOTEC trust that this report meets your requirements, but please contact us should you require clarification on any of the matters raised.

Yours faithfully

for **SOCOTEC**



**Ryan Paul**  
Environmental Consultant  
ryan.paul@socotec.co.uk

## Review Record

| Issue No | Prepared by                                                                         | Checked by                                                                          | Approved by                                                                           |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Rev00    | Ryan Paul<br>MSc                                                                    | Maria Tsamaki<br>BSc(Hons) MSc FGS<br>MIEnvSc                                       | Maria Tsamaki<br>BSc(Hons) MSc FGS<br>MIEnvSc                                         |
|          |  |  |  |
|          |                                                                                     |                                                                                     |                                                                                       |
|          |                                                                                     |                                                                                     |                                                                                       |

This Report has been prepared by SOCOTEC UK Limited with all reasonable skill and care, within the terms and conditions of the contract between SOCOTEC UK Limited and the Client ("Contract") and within the limitations of the resources devoted to it by agreement with the Client. Any reliance upon the Report is subject to the Contract terms and conditions.

This Report is confidential between the Client and SOCOTEC UK Limited. SOCOTEC UK Limited accepts no responsibility whatsoever to third parties to whom this document, or any part thereof, is made known. Any such party relies upon the Report at their own risk. The Contracts (Rights of Third Parties) Act 1999 does not apply to this Report nor the Contract and the provisions of the said Act are hereby excluded.

This Report shall not be used for engineering or contractual purposes unless signed above by the author, checker and the approver for and on behalf of SOCOTEC UK Limited and unless the Report status is 'Final'.

Unless specifically assigned or transferred within the terms and conditions of the Contract, SOCOTEC UK Limited asserts and retains all Copyright and other Intellectual Property Rights in and over the Report and its contents. The Report may not be copied or reproduced, in whole or in part, without the written authorisation from SOCOTEC UK Limited. SOCOTEC UK Limited shall not be liable for any use of the Report for any purpose other than that for which it was originally prepared.

Whilst every effort has been made to ensure the accuracy of the data supplied and any analysis interpretation derived from it, the possibility exists of variations in the ground and groundwater conditions around and between the exploratory positions. No liability can be accepted for any such variations in these conditions. Furthermore, any recommendations are specific to the development as detailed in this Report and no liability will be accepted should they be used for the design of alternative schemes without prior consultant with SOCOTEC UK Limited.

## Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.



C00G1-JZH8X-CY93L

Report is invalid if pages are removed.

### Job name

NOR5001-221-001 Earthworks Testing Ltd

### Description/Comments

### Project

NOR5001-221-001

### Site

Dove Valley Park

### Classified by

Name: **Ryan Paul**  
Date: **21 Nov 2025 14:36 GMT**  
Telephone: **07483097256**  
Company: **SOCOTEC UK Limited**  
**Leofric Business Park**  
**Progress Close,**  
**Coventry**  
**CV3 2TF**

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

**HazWasteOnline™ Certification:**

-

**Course**  
Hazardous Waste Classification

**Date**

-

### Purpose of classification

2 - Material Characterisation

### Address of the waste

N/A

**Post Code** N/A

### SIC for the process giving rise to the waste

### Description of industry/producer giving rise to the waste

N/A

### Description of the specific process, sub-process and/or activity that created the waste

N/A

### Description of the waste

Dark brown SILT with miscellaneous inclusions

## Job summary

| # | Sample name             | Depth [m] | Classification Result | Hazard properties         | Page |
|---|-------------------------|-----------|-----------------------|---------------------------|------|
| 1 | C1583/214-Trial Hole 5A |           | Hazardous             | HP 7, HP 11, HP 14        | 3    |
| 2 | C1583/215-Trial Hole 5B |           | Hazardous             | HP 7, HP 11, HP 14        | 6    |
| 3 | C1583/216-Trial Hole 5C |           | Hazardous             | HP 7, HP 11, HP 14        | 9    |
| 4 | C1583/217-Trial Hole 5D |           | Hazardous             | HP 7, HP 11, HP 14        | 12   |
| 5 | C1583/218-Trial Hole 5E |           | Hazardous             | HP 7, HP 10, HP 11, HP 14 | 15   |
| 6 | C1583/219-Trial Hole 5F |           | Hazardous             | HP 7, HP 11               | 18   |

## Related documents

| # | Name                                                | Description                                   |
|---|-----------------------------------------------------|-----------------------------------------------|
| 1 | 1 SOCOTEC Consultancy Generic October 25 + Asbestos | waste stream template used to create this Job |

## Report

Created by: Ryan Paul

Created date: 21 Nov 2025 14:36 GMT

| Appendices                                                 | Page |
|------------------------------------------------------------|------|
| Appendix A: Classifier defined and non GB MCL determinands | 21   |
| Appendix B: Rationale for selection of metal species       | 22   |
| Appendix C: Version                                        | 23   |

**Classification of sample: C1583/214-Trial Hole 5A**



**Sample details**

|                                 |                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| Sample name:                    | LoW Code:                                                                                          |
| <b>C1583/214-Trial Hole 5A</b>  | Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| Moisture content:               | Entry: 17 05 03 * (Soil and stones containing hazardous substances)                                |
| <b>27.2%</b><br>(no correction) |                                                                                                    |

**Hazard properties**

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1A; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos (conc.: 0.161%)

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

**Aquatic Chronic 1; H410** "Very toxic to aquatic life with long lasting effects."

Because of determinands:

dicopper oxide; copper (I) oxide (compound conc.: 0.11%)

zinc sulphate (compound conc.: 0.254%)

**Determinands**

Moisture content: **27.2% No Moisture Correction applied (MC)**

| # | Determinand                  |           |            | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|---|------------------------------|-----------|------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|   | EU CLP index number          | EC Number | CAS Number |          |                   |       |              |                |       |                      |            |                |
| 1 | boron { diboron trioxide }   |           |            |          | 4.1               | mg/kg | 3.22         | 13.201         | mg/kg | 0.00132 %            |            |                |
|   | 005-008-00-8                 | 215-125-8 | 1303-86-2  |          |                   |       |              |                |       |                      |            |                |
| 2 | arsenic { arsenic trioxide } |           |            |          | 36.5              | mg/kg | 1.32         | 48.192         | mg/kg | 0.00482 %            |            |                |
|   | 033-003-00-0                 | 215-481-4 | 1327-53-3  |          |                   |       |              |                |       |                      |            |                |
| 3 | cadmium { cadmium oxide }    |           |            |          | 3.3               | mg/kg | 1.142        | 3.77           | mg/kg | 0.000377 %           |            |                |
|   | 048-002-00-0                 | 215-146-2 | 1306-19-0  |          |                   |       |              |                |       |                      |            |                |

| #  | Determinand                                                                                                                                                                            |              |                                | CLP Note                       | User entered data | Conv. Factor | Compound conc. |              | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|--------------------------------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number    | CAS Number                     |                                |                   |              |                |              |                      |            |                |
| 4  | chromium in Cr(III) compounds { chromium(III) oxide (worst case) }                                                                                                                     | 215-160-9    | 1308-38-9                      |                                | 118 mg/kg         | 1.462        | 172.464 mg/kg  | 0.0172 %     |                      |            |                |
| 5  | copper { dicopper oxide; copper (I) oxide }                                                                                                                                            | 029-002-00-X | 215-270-7                      | 1317-39-1                      | 976.7 mg/kg       | 1.126        | 1099.655 mg/kg | 0.11 %       |                      |            |                |
| 6  | lead { lead di(acetate) }                                                                                                                                                              | 082-005-00-8 | 206-104-4                      | 301-04-2                       | 906.6 mg/kg       | 1.57         | 1423.267 mg/kg | 0.0907 %     |                      |            |                |
| 7  | mercury { mercury dichloride }                                                                                                                                                         | 080-010-00-X | 231-299-8                      | 7487-94-7                      | <0.5 mg/kg        | 1.353        | <0.677 mg/kg   | <0.0000677 % |                      |            | <LOD           |
| 8  | nickel { nickel chromate }                                                                                                                                                             | 028-035-00-7 | 238-766-5                      | 14721-18-7                     | <20 mg/kg         | 2.976        | <59.525 mg/kg  | <0.00595 %   |                      |            | <LOD           |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                               | 034-002-00-8 |                                |                                | 0.9 mg/kg         | 1.405        | 1.265 mg/kg    | 0.000126 %   |                      |            |                |
| 10 | zinc { zinc sulphate }                                                                                                                                                                 | 030-006-00-9 | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2] | 1029 mg/kg        | 2.469        | 2540.906 mg/kg | 0.254 %      |                      |            |                |
| 11 | vanadium { divanadium pentaoxide; vanadium pentoxide }                                                                                                                                 | 023-001-00-8 | 215-239-8                      | 1314-62-1                      | 44.5 mg/kg        | 1.785        | 79.441 mg/kg   | 0.00794 %    |                      |            |                |
| 12 | beryllium { beryllium chloride }                                                                                                                                                       | 004-002-00-2 | 232-116-4                      | 7787-47-5                      | 2.13 mg/kg        | 8.868        | 18.889 mg/kg   | 0.00189 %    |                      |            |                |
| 13 | chromium in Cr(VI) compounds { chromium(VI) oxide }                                                                                                                                    | 024-001-00-0 | 215-607-8                      | 1333-82-0                      | <0.1 mg/kg        | 1.923        | <0.192 mg/kg   | <0.0000192 % |                      |            | <LOD           |
| 14 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | 006-007-00-5 |                                |                                | <0.7 mg/kg        | 1.884        | <1.319 mg/kg   | <0.000132 %  |                      |            | <LOD           |
| 15 | phenol                                                                                                                                                                                 | 604-001-00-2 | 203-632-7                      | 108-95-2                       | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %     |                      |            |                |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                        |              |                                | TPH                            | 2930 mg/kg        |              | 2930 mg/kg     | 0.293 %      |                      |            |                |
| 17 | acenaphthene                                                                                                                                                                           |              | 201-469-6                      | 83-32-9                        | 3.06 mg/kg        |              | 3.06 mg/kg     | 0.000306 %   |                      |            |                |
| 18 | acenaphthylene                                                                                                                                                                         |              | 205-917-1                      | 208-96-8                       | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %   |                      |            |                |
| 19 | anthracene                                                                                                                                                                             |              | 204-371-1                      | 120-12-7                       | 3.55 mg/kg        |              | 3.55 mg/kg     | 0.000355 %   |                      |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                     | 601-033-00-9 | 200-280-6                      | 56-55-3                        | 3.95 mg/kg        |              | 3.95 mg/kg     | 0.000395 %   |                      |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     | 601-032-00-3 | 200-028-5                      | 50-32-8                        | 3.66 mg/kg        |              | 3.66 mg/kg     | 0.000366 %   |                      |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                   | 601-034-00-4 | 205-911-9                      | 205-99-2                       | 4.38 mg/kg        |              | 4.38 mg/kg     | 0.000438 %   |                      |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                     |              | 205-883-8                      | 191-24-2                       | 1.91 mg/kg        |              | 1.91 mg/kg     | 0.000191 %   |                      |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                   | 601-036-00-5 | 205-916-6                      | 207-08-9                       | 1.76 mg/kg        |              | 1.76 mg/kg     | 0.000176 %   |                      |            |                |
| 25 | chrysene                                                                                                                                                                               | 601-048-00-0 | 205-923-4                      | 218-01-9                       | 3.52 mg/kg        |              | 3.52 mg/kg     | 0.000352 %   |                      |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                  | 601-041-00-2 | 200-181-8                      | 53-70-3                        | 0.49 mg/kg        |              | 0.49 mg/kg     | 0.000049 %   |                      |            |                |
| 27 | fluoranthene                                                                                                                                                                           |              | 205-912-4                      | 206-44-0                       | 11.5 mg/kg        |              | 11.5 mg/kg     | 0.00115 %    |                      |            |                |
| 28 | fluorene                                                                                                                                                                               |              | 201-695-5                      | 86-73-7                        | 3.01 mg/kg        |              | 3.01 mg/kg     | 0.000301 %   |                      |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                   |              | 205-893-2                      | 193-39-5                       | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %    |                      |            |                |

| #      | Determinand             |           |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------|-----------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number     | EC Number | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 30     | naphthalene             |           |                                                                                                 |          | 5.38 mg/kg        |              | 5.38 mg/kg     | 0.000538 %           |            |                |
|        | 601-052-00-2            | 202-049-5 | 91-20-3                                                                                         |          |                   |              |                |                      |            |                |
| 31     | phenanthrene            |           |                                                                                                 |          | 12.7 mg/kg        |              | 12.7 mg/kg     | 0.00127 %            |            |                |
|        |                         | 201-581-5 | 85-01-8                                                                                         |          |                   |              |                |                      |            |                |
| 32     | pyrene                  |           |                                                                                                 |          | 9.45 mg/kg        |              | 9.45 mg/kg     | 0.000945 %           |            |                |
|        |                         | 204-927-3 | 129-00-0                                                                                        |          |                   |              |                |                      |            |                |
| 33     | pH: acid/alkali reserve |           |                                                                                                 |          | <0.1 gNaOH        |              | <0.1 gNaOH     | <0.1 gNaOH           |            | <LOD           |
|        |                         |           | ACID_ALK_RES                                                                                    |          |                   |              |                |                      |            |                |
| 34     | asbestos                |           |                                                                                                 |          | 0.161 %           |              | 0.161 %        | 0.161 %              |            |                |
|        | 650-013-00-6            | -----     | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          |                   |              |                |                      |            |                |
| Total: |                         |           |                                                                                                 |          |                   |              |                | 0.949 %              |            |                |

**Key**

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

**Supplementary Hazardous Property Information**

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

**Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because:** The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.293%)

**Classification of sample: C1583/215-Trial Hole 5B**

 **Hazardous Waste**  
 Classified as **17 05 03 \***  
 in the List of Waste

**Sample details**

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Sample name:                   | LoW Code:                                                                                 |
| <b>C1583/215-Trial Hole 5B</b> | Chapter:                                                                                  |
| Moisture content:              | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>24.8%</b>                   | Entry:                                                                                    |
| (no correction)                | 17 05 03 * (Soil and stones containing hazardous substances)                              |

**Hazard properties**

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

**Aquatic Chronic 1; H410** "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.129%)

zinc sulphate (compound conc.: 0.19%)

**Determinands**

Moisture content: **24.8% No Moisture Correction applied (MC)**

| # | Determinand                                                               |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. |            | Classification value | MC Applied | Conc. Not Used |
|---|---------------------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|------------|----------------------|------------|----------------|
|   | EU CLP index number                                                       | EC Number | CAS Number |          |                   |              |                |            |                      |            |                |
| 1 | boron { <b>diboron trioxide</b> }                                         |           |            |          | 1.2 mg/kg         | 3.22         | 3.864 mg/kg    | 0.000386 % |                      |            |                |
|   | 005-008-00-8                                                              | 215-125-8 | 1303-86-2  |          |                   |              |                |            |                      |            |                |
| 2 | arsenic { <b>arsenic trioxide</b> }                                       |           |            |          | 41.9 mg/kg        | 1.32         | 55.322 mg/kg   | 0.00553 %  |                      |            |                |
|   | 033-003-00-0                                                              | 215-481-4 | 1327-53-3  |          |                   |              |                |            |                      |            |                |
| 3 | cadmium { <b>cadmium oxide</b> }                                          |           |            |          | 14 mg/kg          | 1.142        | 15.993 mg/kg   | 0.0016 %   |                      |            |                |
|   | 048-002-00-0                                                              | 215-146-2 | 1306-19-0  |          |                   |              |                |            |                      |            |                |
| 4 | chromium in Cr(III) compounds { <b>chromium(III) oxide (worst case)</b> } |           |            |          | 99.4 mg/kg        | 1.462        | 145.279 mg/kg  | 0.0145 %   |                      |            |                |
|   |                                                                           | 215-160-9 | 1308-38-9  |          |                   |              |                |            |                      |            |                |
| 5 | copper { <b>dicopper oxide; copper (I) oxide</b> }                        |           |            |          | 467.8 mg/kg       | 1.126        | 526.691 mg/kg  | 0.0527 %   |                      |            |                |
|   | 029-002-00-X                                                              | 215-270-7 | 1317-39-1  |          |                   |              |                |            |                      |            |                |

| #  | Determinand                                                                                                                                                                                   |              |                                | CLP Note                       | User entered data | Conv. Factor | Compound conc. |                | Classification value | MC Applied | Conc. Not Used |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|--------------------------------|-------------------|--------------|----------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                           | EC Number    | CAS Number                     |                                |                   |              |                |                |                      |            |                |
| 6  | lead { <b>lead di(acetate)</b> }                                                                                                                                                              | 082-005-00-8 | 206-104-4                      | 301-04-2                       | 1                 | 1289 mg/kg   | 1.57           | 2023.596 mg/kg | 0.129 %              |            |                |
| 7  | mercury { <b>mercury dichloride</b> }                                                                                                                                                         | 080-010-00-X | 231-299-8                      | 7487-94-7                      |                   | <0.5 mg/kg   | 1.353          | <0.677 mg/kg   | <0.0000677 %         |            | <LOD           |
| 8  | nickel { <b>nickel chromate</b> }                                                                                                                                                             | 028-035-00-7 | 238-766-5                      | 14721-18-7                     |                   | <20 mg/kg    | 2.976          | <59.525 mg/kg  | <0.00595 %           |            | <LOD           |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                                      | 034-002-00-8 |                                |                                |                   | 1 mg/kg      | 1.405          | 1.405 mg/kg    | 0.000141 %           |            |                |
| 10 | zinc { <b>zinc sulphate</b> }                                                                                                                                                                 | 030-006-00-9 | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2] |                   | 769.7 mg/kg  | 2.469          | 1900.617 mg/kg | 0.19 %               |            |                |
| 11 | vanadium { <b>divanadium pentaoxide; vanadium pentoxide</b> }                                                                                                                                 | 023-001-00-8 | 215-239-8                      | 1314-62-1                      |                   | 41 mg/kg     | 1.785          | 73.193 mg/kg   | 0.00732 %            |            |                |
| 12 | beryllium { <b>beryllium chloride</b> }                                                                                                                                                       | 004-002-00-2 | 232-116-4                      | 7787-47-5                      |                   | 1.48 mg/kg   | 8.868          | 13.125 mg/kg   | 0.00131 %            |            |                |
| 13 | chromium in Cr(VI) compounds { <b>chromium(VI) oxide</b> }                                                                                                                                    | 024-001-00-0 | 215-607-8                      | 1333-82-0                      |                   | <0.1 mg/kg   | 1.923          | <0.192 mg/kg   | <0.0000192 %         |            | <LOD           |
| 14 | cyanides { <b>salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex</b> } | 006-007-00-5 |                                |                                |                   | <0.7 mg/kg   | 1.884          | <1.319 mg/kg   | <0.000132 %          |            | <LOD           |
| 15 | phenol                                                                                                                                                                                        | 604-001-00-2 | 203-632-7                      | 108-95-2                       |                   | <0.7 mg/kg   |                | <0.7 mg/kg     | <0.00007 %           |            | <LOD           |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                               |              |                                | TPH                            |                   | 1920 mg/kg   |                | 1920 mg/kg     | 0.192 %              |            |                |
| 17 | acenaphthene                                                                                                                                                                                  |              | 201-469-6                      | 83-32-9                        |                   | 0.56 mg/kg   |                | 0.56 mg/kg     | 0.000056 %           |            |                |
| 18 | acenaphthylene                                                                                                                                                                                |              | 205-917-1                      | 208-96-8                       |                   | <0.11 mg/kg  |                | <0.11 mg/kg    | <0.000011 %          |            | <LOD           |
| 19 | anthracene                                                                                                                                                                                    |              | 204-371-1                      | 120-12-7                       |                   | 1.03 mg/kg   |                | 1.03 mg/kg     | 0.000103 %           |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                            | 601-033-00-9 | 200-280-6                      | 56-55-3                        |                   | 2 mg/kg      |                | 2 mg/kg        | 0.0002 %             |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                            | 601-032-00-3 | 200-028-5                      | 50-32-8                        |                   | 1.9 mg/kg    |                | 1.9 mg/kg      | 0.00019 %            |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                          | 601-034-00-4 | 205-911-9                      | 205-99-2                       |                   | 2.46 mg/kg   |                | 2.46 mg/kg     | 0.000246 %           |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                            |              | 205-883-8                      | 191-24-2                       |                   | 1.06 mg/kg   |                | 1.06 mg/kg     | 0.000106 %           |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                          | 601-036-00-5 | 205-916-6                      | 207-08-9                       |                   | 1 mg/kg      |                | 1 mg/kg        | 0.0001 %             |            |                |
| 25 | chrysene                                                                                                                                                                                      | 601-048-00-0 | 205-923-4                      | 218-01-9                       |                   | 1.86 mg/kg   |                | 1.86 mg/kg     | 0.000186 %           |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                         | 601-041-00-2 | 200-181-8                      | 53-70-3                        |                   | 0.28 mg/kg   |                | 0.28 mg/kg     | 0.000028 %           |            |                |
| 27 | fluoranthene                                                                                                                                                                                  |              | 205-912-4                      | 206-44-0                       |                   | 5.41 mg/kg   |                | 5.41 mg/kg     | 0.000541 %           |            |                |
| 28 | fluorene                                                                                                                                                                                      |              | 201-695-5                      | 86-73-7                        |                   | 0.47 mg/kg   |                | 0.47 mg/kg     | 0.000047 %           |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                          |              | 205-893-2                      | 193-39-5                       |                   | 1.15 mg/kg   |                | 1.15 mg/kg     | 0.000115 %           |            |                |
| 30 | naphthalene                                                                                                                                                                                   | 601-052-00-2 | 202-049-5                      | 91-20-3                        |                   | 0.31 mg/kg   |                | 0.31 mg/kg     | 0.000031 %           |            |                |
| 31 | phenanthrene                                                                                                                                                                                  |              | 201-581-5                      | 85-01-8                        |                   | 2.89 mg/kg   |                | 2.89 mg/kg     | 0.000289 %           |            |                |

| #      | Determinand             |              |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------|--------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number     | EC Number    | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 32     | pyrene                  | 204-927-3    | 129-00-0                                                                                        |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
| 33     | pH: acid/alkali reserve |              | ACID_ALK_RES                                                                                    |          | <0.1 gNaOH        |              | <0.1 gNaOH     | <0.1 gNaOH           |            | <LOD           |
| 34     | asbestos                | 650-013-00-6 | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | < %               |              | < %            | <                    |            | <LOD           |
| Total: |                         |              |                                                                                                 |          |                   |              |                | 0.597 %              |            |                |

**Key**

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

**Supplementary Hazardous Property Information**

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

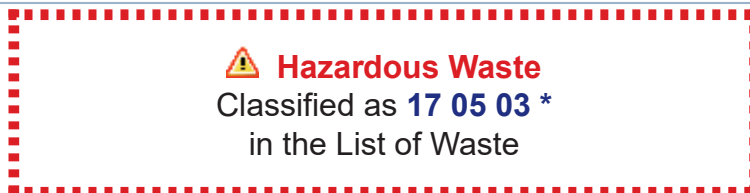
Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.192%)

**Classification of sample: C1583/216-Trial Hole 5C**



**Sample details**

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Sample name:                   | LoW Code:                                                                                 |
| <b>C1583/216-Trial Hole 5C</b> | Chapter:                                                                                  |
| Moisture content:              | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>27.5%</b>                   | Entry:                                                                                    |
| (no correction)                | 17 05 03 * (Soil and stones containing hazardous substances)                              |

**Hazard properties**

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

**Aquatic Chronic 1; H410** "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.151%)

zinc sulphate (compound conc.: 0.189%)

**Determinands**

Moisture content: **27.5% No Moisture Correction applied (MC)**

| # | Determinand                                                        |           |            | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|---|--------------------------------------------------------------------|-----------|------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|   | EU CLP index number                                                | EC Number | CAS Number |          |                   |       |              |                |       |                      |            |                |
| 1 | boron { diboron trioxide }                                         |           |            |          | 4.2               | mg/kg | 3.22         | 13.523         | mg/kg | 0.00135 %            |            |                |
|   | 005-008-00-8                                                       | 215-125-8 | 1303-86-2  |          |                   |       |              |                |       |                      |            |                |
| 2 | arsenic { arsenic trioxide }                                       |           |            |          | 28.4              | mg/kg | 1.32         | 37.497         | mg/kg | 0.00375 %            |            |                |
|   | 033-003-00-0                                                       | 215-481-4 | 1327-53-3  |          |                   |       |              |                |       |                      |            |                |
| 3 | cadmium { cadmium oxide }                                          |           |            |          | 2.5               | mg/kg | 1.142        | 2.856          | mg/kg | 0.000286 %           |            |                |
|   | 048-002-00-0                                                       | 215-146-2 | 1306-19-0  |          |                   |       |              |                |       |                      |            |                |
| 4 | chromium in Cr(III) compounds { chromium(III) oxide (worst case) } |           |            |          | 174.7             | mg/kg | 1.462        | 255.334        | mg/kg | 0.0255 %             |            |                |
|   |                                                                    | 215-160-9 | 1308-38-9  |          |                   |       |              |                |       |                      |            |                |
| 5 | copper { dicopper oxide; copper (I) oxide }                        |           |            |          | 244.8             | mg/kg | 1.126        | 275.617        | mg/kg | 0.0276 %             |            |                |
|   | 029-002-00-X                                                       | 215-270-7 | 1317-39-1  |          |                   |       |              |                |       |                      |            |                |

| #  | Determinand                                                                                                                                                                                                                                                              |              |                                | CLP Note                       | User entered data |             | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|--------------------------------|-------------------|-------------|--------------|----------------|--|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                                                                                      | EC Number    | CAS Number                     |                                |                   |             |              |                |  |                      |            |                |
| 6  | lead {  lead di(acetate) }                                                                                                                                                              | 082-005-00-8 | 206-104-4                      | 301-04-2                       | 1                 | 1512 mg/kg  | 1.57         | 2373.682 mg/kg |  | 0.151 %              |            |                |
| 7  | mercury {  mercury dichloride }                                                                                                                                                         | 080-010-00-X | 231-299-8                      | 7487-94-7                      |                   | <0.5 mg/kg  | 1.353        | <0.677 mg/kg   |  | <0.0000677 %         |            | <LOD           |
| 8  | nickel {  nickel chromate }                                                                                                                                                             | 028-035-00-7 | 238-766-5                      | 14721-18-7                     |                   | 78.1 mg/kg  | 2.976        | 232.446 mg/kg  |  | 0.0232 %             |            |                |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                                                                                                                 | 034-002-00-8 |                                |                                |                   | 0.7 mg/kg   | 1.405        | 0.983 mg/kg    |  | 0.0000983 %          |            |                |
| 10 | zinc {  zinc sulphate }                                                                                                                                                                 | 030-006-00-9 | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2] |                   | 763.5 mg/kg | 2.469        | 1885.308 mg/kg |  | 0.189 %              |            |                |
| 11 | vanadium {  divanadium pentaoxide; vanadium pentoxide }                                                                                                                                 | 023-001-00-8 | 215-239-8                      | 1314-62-1                      |                   | 42 mg/kg    | 1.785        | 74.978 mg/kg   |  | 0.0075 %             |            |                |
| 12 | beryllium {  beryllium chloride }                                                                                                                                                       | 004-002-00-2 | 232-116-4                      | 7787-47-5                      |                   | 1.09 mg/kg  | 8.868        | 9.666 mg/kg    |  | 0.000967 %           |            |                |
| 13 | chromium in Cr(VI) compounds {  chromium(VI) oxide }                                                                                                                                    | 024-001-00-0 | 215-607-8                      | 1333-82-0                      |                   | <0.1 mg/kg  | 1.923        | <0.192 mg/kg   |  | <0.0000192 %         |            | <LOD           |
| 14 | cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | 006-007-00-5 |                                |                                |                   | <0.7 mg/kg  | 1.884        | <1.319 mg/kg   |  | <0.000132 %          |            | <LOD           |
| 15 | phenol                                                                                                                                                                                                                                                                   | 604-001-00-2 | 203-632-7                      | 108-95-2                       |                   | <0.7 mg/kg  |              | <0.7 mg/kg     |  | <0.00007 %           |            | <LOD           |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                                                                                                          |              |                                | TPH                            |                   | 4400 mg/kg  |              | 4400 mg/kg     |  | 0.44 %               |            |                |
| 17 | acenaphthene                                                                                                                                                                                                                                                             |              | 201-469-6                      | 83-32-9                        |                   | 1.41 mg/kg  |              | 1.41 mg/kg     |  | 0.000141 %           |            |                |
| 18 | acenaphthylene                                                                                                                                                                                                                                                           |              | 205-917-1                      | 208-96-8                       |                   | 0.12 mg/kg  |              | 0.12 mg/kg     |  | 0.000012 %           |            |                |
| 19 | anthracene                                                                                                                                                                                                                                                               |              | 204-371-1                      | 120-12-7                       |                   | 2.24 mg/kg  |              | 2.24 mg/kg     |  | 0.000224 %           |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                                                                                                       | 601-033-00-9 | 200-280-6                      | 56-55-3                        |                   | 3.66 mg/kg  |              | 3.66 mg/kg     |  | 0.000366 %           |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                                                                                                       | 601-032-00-3 | 200-028-5                      | 50-32-8                        |                   | 3.43 mg/kg  |              | 3.43 mg/kg     |  | 0.000343 %           |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                                                                                                     | 601-034-00-4 | 205-911-9                      | 205-99-2                       |                   | 4.46 mg/kg  |              | 4.46 mg/kg     |  | 0.000446 %           |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                                                                                                       |              | 205-883-8                      | 191-24-2                       |                   | 1.91 mg/kg  |              | 1.91 mg/kg     |  | 0.000191 %           |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                                                                                                     | 601-036-00-5 | 205-916-6                      | 207-08-9                       |                   | 1.72 mg/kg  |              | 1.72 mg/kg     |  | 0.000172 %           |            |                |
| 25 | chrysene                                                                                                                                                                                                                                                                 | 601-048-00-0 | 205-923-4                      | 218-01-9                       |                   | 3.3 mg/kg   |              | 3.3 mg/kg      |  | 0.00033 %            |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                                                                                                    | 601-041-00-2 | 200-181-8                      | 53-70-3                        |                   | 0.48 mg/kg  |              | 0.48 mg/kg     |  | 0.000048 %           |            |                |
| 27 | fluoranthene                                                                                                                                                                                                                                                             |              | 205-912-4                      | 206-44-0                       |                   | 10.6 mg/kg  |              | 10.6 mg/kg     |  | 0.00106 %            |            |                |
| 28 | fluorene                                                                                                                                                                                                                                                                 |              | 201-695-5                      | 86-73-7                        |                   | 1.32 mg/kg  |              | 1.32 mg/kg     |  | 0.000132 %           |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                                                                                                     |              | 205-893-2                      | 193-39-5                       |                   | 2.1 mg/kg   |              | 2.1 mg/kg      |  | 0.00021 %            |            |                |
| 30 | naphthalene                                                                                                                                                                                                                                                              | 601-052-00-2 | 202-049-5                      | 91-20-3                        |                   | 0.57 mg/kg  |              | 0.57 mg/kg     |  | 0.000057 %           |            |                |
| 31 | phenanthrene                                                                                                                                                                                                                                                             |              | 201-581-5                      | 85-01-8                        |                   | 7.65 mg/kg  |              | 7.65 mg/kg     |  | 0.000765 %           |            |                |

| #      | Determinand             |              |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------|--------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number     | EC Number    | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 32     | pyrene                  | 204-927-3    | 129-00-0                                                                                        |          | 8.76 mg/kg        |              | 8.76 mg/kg     | 0.000876 %           |            |                |
| 33     | pH: acid/alkali reserve |              | ACID_ALK_RES                                                                                    |          | <0.1 gNaOH        |              | <0.1 gNaOH     | <0.1 gNaOH           |            | <LOD           |
| 34     | asbestos                | 650-013-00-6 | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | < %               |              | < %            | <                    |            | <LOD           |
| Total: |                         |              |                                                                                                 |          |                   |              |                | 0.875 %              |            |                |

**Key**

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

**Supplementary Hazardous Property Information**

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.44%)

**Classification of sample: C1583/217-Trial Hole 5D**



**Sample details**

|                                 |           |                                                                                           |
|---------------------------------|-----------|-------------------------------------------------------------------------------------------|
| Sample name:                    | LoW Code: |                                                                                           |
| <b>C1583/217-Trial Hole 5D</b>  | Chapter:  | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| Moisture content:               | Entry:    | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>24.6%</b><br>(no correction) |           |                                                                                           |

**Hazard properties**

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

**Aquatic Chronic 1; H410** "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.128%)

zinc sulphate (compound conc.: 0.155%)

**Determinands**

Moisture content: **24.6% No Moisture Correction applied (MC)**

| # | Determinand                                                               |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|---|---------------------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|--|----------------------|------------|----------------|
|   | EU CLP index number                                                       | EC Number | CAS Number |          |                   |              |                |  |                      |            |                |
| 1 | boron { <b>diboron trioxide</b> }                                         |           |            |          | 1.5 mg/kg         | 3.22         | 4.83 mg/kg     |  | 0.000483 %           |            |                |
|   | 005-008-00-8                                                              | 215-125-8 | 1303-86-2  |          |                   |              |                |  |                      |            |                |
| 2 | arsenic { <b>arsenic trioxide</b> }                                       |           |            |          | 27.3 mg/kg        | 1.32         | 36.045 mg/kg   |  | 0.0036 %             |            |                |
|   | 033-003-00-0                                                              | 215-481-4 | 1327-53-3  |          |                   |              |                |  |                      |            |                |
| 3 | cadmium { <b>cadmium oxide</b> }                                          |           |            |          | 2.1 mg/kg         | 1.142        | 2.399 mg/kg    |  | 0.00024 %            |            |                |
|   | 048-002-00-0                                                              | 215-146-2 | 1306-19-0  |          |                   |              |                |  |                      |            |                |
| 4 | chromium in Cr(III) compounds { <b>chromium(III) oxide (worst case)</b> } |           |            |          | 87.9 mg/kg        | 1.462        | 128.471 mg/kg  |  | 0.0128 %             |            |                |
|   |                                                                           | 215-160-9 | 1308-38-9  |          |                   |              |                |  |                      |            |                |
| 5 | copper { <b>dicopper oxide; copper (I) oxide</b> }                        |           |            |          | 227.4 mg/kg       | 1.126        | 256.027 mg/kg  |  | 0.0256 %             |            |                |
|   | 029-002-00-X                                                              | 215-270-7 | 1317-39-1  |          |                   |              |                |  |                      |            |                |

| #  | Determinand                                                                                                                                                                                   |              |                                | CLP Note                       | User entered data |            | Conv. Factor | Compound conc. |              | Classification value | MC Applied | Conc. Not Used |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|--------------------------------|-------------------|------------|--------------|----------------|--------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                           | EC Number    | CAS Number                     |                                |                   |            |              |                |              |                      |            |                |
| 6  | lead { <b>lead di(acetate)</b> }                                                                                                                                                              | 082-005-00-8 | 206-104-4                      | 301-04-2                       | 1                 | 1279 mg/kg | 1.57         | 2007.897 mg/kg | 0.128 %      |                      |            |                |
| 7  | mercury { <b>mercury dichloride</b> }                                                                                                                                                         | 080-010-00-X | 231-299-8                      | 7487-94-7                      |                   | <0.5 mg/kg | 1.353        | <0.677 mg/kg   | <0.0000677 % |                      |            | <LOD           |
| 8  | nickel { <b>nickel chromate</b> }                                                                                                                                                             | 028-035-00-7 | 238-766-5                      | 14721-18-7                     |                   | 71.2 mg/kg | 2.976        | 211.91 mg/kg   | 0.0212 %     |                      |            |                |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                                      | 034-002-00-8 |                                |                                |                   | 1 mg/kg    | 1.405        | 1.405 mg/kg    | 0.000141 %   |                      |            |                |
| 10 | zinc { <b>zinc sulphate</b> }                                                                                                                                                                 | 030-006-00-9 | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2] |                   | 626 mg/kg  | 2.469        | 1545.78 mg/kg  | 0.155 %      |                      |            |                |
| 11 | vanadium { <b>divanadium pentaoxide; vanadium pentoxide</b> }                                                                                                                                 | 023-001-00-8 | 215-239-8                      | 1314-62-1                      |                   | 42 mg/kg   | 1.785        | 74.978 mg/kg   | 0.0075 %     |                      |            |                |
| 12 | beryllium { <b>beryllium chloride</b> }                                                                                                                                                       | 004-002-00-2 | 232-116-4                      | 7787-47-5                      |                   | 1.53 mg/kg | 8.868        | 13.568 mg/kg   | 0.00136 %    |                      |            |                |
| 13 | chromium in Cr(VI) compounds { <b>chromium(VI) oxide</b> }                                                                                                                                    | 024-001-00-0 | 215-607-8                      | 1333-82-0                      |                   | <0.1 mg/kg | 1.923        | <0.192 mg/kg   | <0.0000192 % |                      |            | <LOD           |
| 14 | cyanides { <b>salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex</b> } | 006-007-00-5 |                                |                                |                   | <0.7 mg/kg | 1.884        | <1.319 mg/kg   | <0.000132 %  |                      |            | <LOD           |
| 15 | phenol                                                                                                                                                                                        | 604-001-00-2 | 203-632-7                      | 108-95-2                       |                   | <0.7 mg/kg |              | <0.7 mg/kg     | <0.00007 %   |                      |            | <LOD           |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                               |              |                                | TPH                            |                   | 2620 mg/kg |              | 2620 mg/kg     | 0.262 %      |                      |            |                |
| 17 | acenaphthene                                                                                                                                                                                  | 201-469-6    | 83-32-9                        |                                |                   | 1.33 mg/kg |              | 1.33 mg/kg     | 0.000133 %   |                      |            |                |
| 18 | acenaphthylene                                                                                                                                                                                | 205-917-1    | 208-96-8                       |                                |                   | 0.12 mg/kg |              | 0.12 mg/kg     | 0.000012 %   |                      |            |                |
| 19 | anthracene                                                                                                                                                                                    | 204-371-1    | 120-12-7                       |                                |                   | 2.25 mg/kg |              | 2.25 mg/kg     | 0.000225 %   |                      |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                            | 601-033-00-9 | 200-280-6                      | 56-55-3                        |                   | 3.32 mg/kg |              | 3.32 mg/kg     | 0.000332 %   |                      |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                            | 601-032-00-3 | 200-028-5                      | 50-32-8                        |                   | 3.21 mg/kg |              | 3.21 mg/kg     | 0.000321 %   |                      |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                          | 601-034-00-4 | 205-911-9                      | 205-99-2                       |                   | 4.13 mg/kg |              | 4.13 mg/kg     | 0.000413 %   |                      |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                            | 205-883-8    | 191-24-2                       |                                |                   | 1.8 mg/kg  |              | 1.8 mg/kg      | 0.00018 %    |                      |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                          | 601-036-00-5 | 205-916-6                      | 207-08-9                       |                   | 1.64 mg/kg |              | 1.64 mg/kg     | 0.000164 %   |                      |            |                |
| 25 | chrysene                                                                                                                                                                                      | 601-048-00-0 | 205-923-4                      | 218-01-9                       |                   | 2.97 mg/kg |              | 2.97 mg/kg     | 0.000297 %   |                      |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                         | 601-041-00-2 | 200-181-8                      | 53-70-3                        |                   | 0.46 mg/kg |              | 0.46 mg/kg     | 0.000046 %   |                      |            |                |
| 27 | fluoranthene                                                                                                                                                                                  | 205-912-4    | 206-44-0                       |                                |                   | 8.92 mg/kg |              | 8.92 mg/kg     | 0.000892 %   |                      |            |                |
| 28 | fluorene                                                                                                                                                                                      | 201-695-5    | 86-73-7                        |                                |                   | 1.19 mg/kg |              | 1.19 mg/kg     | 0.000119 %   |                      |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                          | 205-893-2    | 193-39-5                       |                                |                   | 1.92 mg/kg |              | 1.92 mg/kg     | 0.000192 %   |                      |            |                |
| 30 | naphthalene                                                                                                                                                                                   | 601-052-00-2 | 202-049-5                      | 91-20-3                        |                   | 0.65 mg/kg |              | 0.65 mg/kg     | 0.000065 %   |                      |            |                |
| 31 | phenanthrene                                                                                                                                                                                  | 201-581-5    | 85-01-8                        |                                |                   | 6.3 mg/kg  |              | 6.3 mg/kg      | 0.00063 %    |                      |            |                |

| #      | Determinand             |              |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------|--------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number     | EC Number    | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 32     | pyrene                  | 204-927-3    | 129-00-0                                                                                        |          | 7.37 mg/kg        |              | 7.37 mg/kg     | 0.000737 %           |            |                |
| 33     | pH: acid/alkali reserve |              | ACID_ALK_RES                                                                                    |          | <0.1 gNaOH        |              | <0.1 gNaOH     | <0.1 gNaOH           |            | <LOD           |
| 34     | asbestos                | 650-013-00-6 | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | < %               |              | < %            | <                    |            | <LOD           |
| Total: |                         |              |                                                                                                 |          |                   |              |                | 0.622 %              |            |                |

Key

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

### Supplementary Hazardous Property Information

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because: The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.262%)

**Classification of sample: C1583/218-Trial Hole 5E**



**Sample details**

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Sample name:                   | LoW Code:                                                                                 |
| <b>C1583/218-Trial Hole 5E</b> | Chapter:                                                                                  |
| Moisture content:              | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>24.1%</b>                   | Entry:                                                                                    |
| (no correction)                | 17 05 03 * (Soil and stones containing hazardous substances)                              |

**Hazard properties**

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

**HP 10: Toxic for reproduction** "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

**Repr. 1A; H360Df** "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead di(acetate) (Note 1 conc.: 0.316%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

**Aquatic Chronic 1; H410** "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead di(acetate) (Note 1 conc.: 0.316%)

zinc sulphate (compound conc.: 0.192%)

**Determinands**

Moisture content: **24.1%** No Moisture Correction applied (MC)

| # | Determinand                |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|---|----------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|   | EU CLP index number        | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 1 | boron { diboron trioxide } |           |            |          | 4.1 mg/kg         | 3.22         | 13.201 mg/kg   | 0.00132 %            |            |                |
|   | 005-008-00-8               | 215-125-8 | 1303-86-2  |          |                   |              |                |                      |            |                |

| #  | Determinand                                                                                                                                                                            |                                |                                | CLP Note | User entered data | Conv. Factor | Compound conc. |              | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                     |          |                   |              |                |              |                      |            |                |
| 2  | arsenic { arsenic trioxide }                                                                                                                                                           |                                |                                |          | 25.4 mg/kg        | 1.32         | 33.536 mg/kg   | 0.00335 %    |                      |            |                |
|    | 033-003-00-0                                                                                                                                                                           | 215-481-4                      | 1327-53-3                      |          |                   |              |                |              |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                |          | 3.2 mg/kg         | 1.142        | 3.655 mg/kg    | 0.000366 %   |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                      |          |                   |              |                |              |                      |            |                |
| 4  | chromium in Cr(III) compounds { chromium(III) oxide (worst case) }                                                                                                                     |                                |                                |          | 96.5 mg/kg        | 1.462        | 141.04 mg/kg   | 0.0141 %     |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                      |          |                   |              |                |              |                      |            |                |
| 5  | copper { dicopper oxide; copper (I) oxide }                                                                                                                                            |                                |                                |          | 408.3 mg/kg       | 1.126        | 459.7 mg/kg    | 0.046 %      |                      |            |                |
|    | 029-002-00-X                                                                                                                                                                           | 215-270-7                      | 1317-39-1                      |          |                   |              |                |              |                      |            |                |
| 6  | lead { lead di(acetate) }                                                                                                                                                              |                                |                                | 1        | 3155 mg/kg        | 1.57         | 4953.021 mg/kg | 0.316 %      |                      |            |                |
|    | 082-005-00-8                                                                                                                                                                           | 206-104-4                      | 301-04-2                       |          |                   |              |                |              |                      |            |                |
| 7  | mercury { mercury dichloride }                                                                                                                                                         |                                |                                |          | <0.5 mg/kg        | 1.353        | <0.677 mg/kg   | <0.0000677 % |                      |            | <LOD           |
|    | 080-010-00-X                                                                                                                                                                           | 231-299-8                      | 7487-94-7                      |          |                   |              |                |              |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                |          | 75.3 mg/kg        | 2.976        | 224.113 mg/kg  | 0.0224 %     |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                     |          |                   |              |                |              |                      |            |                |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                               |                                |                                |          | 1.1 mg/kg         | 1.405        | 1.546 mg/kg    | 0.000155 %   |                      |            |                |
|    | 034-002-00-8                                                                                                                                                                           |                                |                                |          |                   |              |                |              |                      |            |                |
| 10 | zinc { zinc sulphate }                                                                                                                                                                 |                                |                                |          | 775.8 mg/kg       | 2.469        | 1915.68 mg/kg  | 0.192 %      |                      |            |                |
|    | 030-006-00-9                                                                                                                                                                           | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2] |          |                   |              |                |              |                      |            |                |
| 11 | vanadium { divanadium pentaoxide; vanadium pentoxide }                                                                                                                                 |                                |                                |          | 44.3 mg/kg        | 1.785        | 79.084 mg/kg   | 0.00791 %    |                      |            |                |
|    | 023-001-00-8                                                                                                                                                                           | 215-239-8                      | 1314-62-1                      |          |                   |              |                |              |                      |            |                |
| 12 | beryllium { beryllium chloride }                                                                                                                                                       |                                |                                |          | 1.74 mg/kg        | 8.868        | 15.43 mg/kg    | 0.00154 %    |                      |            |                |
|    | 004-002-00-2                                                                                                                                                                           | 232-116-4                      | 7787-47-5                      |          |                   |              |                |              |                      |            |                |
| 13 | chromium in Cr(VI) compounds { chromium(VI) oxide }                                                                                                                                    |                                |                                |          | <0.1 mg/kg        | 1.923        | <0.192 mg/kg   | <0.0000192 % |                      |            | <LOD           |
|    | 024-001-00-0                                                                                                                                                                           | 215-607-8                      | 1333-82-0                      |          |                   |              |                |              |                      |            |                |
| 14 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                |          | <0.7 mg/kg        | 1.884        | <1.319 mg/kg   | <0.000132 %  |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                |          |                   |              |                |              |                      |            |                |
| 15 | phenol                                                                                                                                                                                 |                                |                                |          | <0.7 mg/kg        |              | <0.7 mg/kg     | <0.00007 %   |                      |            | <LOD           |
|    | 604-001-00-2                                                                                                                                                                           | 203-632-7                      | 108-95-2                       |          |                   |              |                |              |                      |            |                |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                | TPH                            |          | 1320 mg/kg        |              | 1320 mg/kg     | 0.132 %      |                      |            |                |
|    |                                                                                                                                                                                        |                                |                                |          |                   |              |                |              |                      |            |                |
| 17 | acenaphthene                                                                                                                                                                           |                                |                                |          | 1.12 mg/kg        |              | 1.12 mg/kg     | 0.000112 %   |                      |            |                |
|    |                                                                                                                                                                                        | 201-469-6                      | 83-32-9                        |          |                   |              |                |              |                      |            |                |
| 18 | acenaphthylene                                                                                                                                                                         |                                |                                |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %   |                      |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                       |          |                   |              |                |              |                      |            |                |
| 19 | anthracene                                                                                                                                                                             |                                |                                |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %    |                      |            |                |
|    |                                                                                                                                                                                        | 204-371-1                      | 120-12-7                       |          |                   |              |                |              |                      |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                     |                                |                                |          | 4.49 mg/kg        |              | 4.49 mg/kg     | 0.000449 %   |                      |            |                |
|    | 601-033-00-9                                                                                                                                                                           | 200-280-6                      | 56-55-3                        |          |                   |              |                |              |                      |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     |                                |                                |          | 3.93 mg/kg        |              | 3.93 mg/kg     | 0.000393 %   |                      |            |                |
|    | 601-032-00-3                                                                                                                                                                           | 200-028-5                      | 50-32-8                        |          |                   |              |                |              |                      |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                   |                                |                                |          | 4.84 mg/kg        |              | 4.84 mg/kg     | 0.000484 %   |                      |            |                |
|    | 601-034-00-4                                                                                                                                                                           | 205-911-9                      | 205-99-2                       |          |                   |              |                |              |                      |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                     |                                |                                |          | 2.05 mg/kg        |              | 2.05 mg/kg     | 0.000205 %   |                      |            |                |
|    |                                                                                                                                                                                        | 205-883-8                      | 191-24-2                       |          |                   |              |                |              |                      |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                   |                                |                                |          | 1.96 mg/kg        |              | 1.96 mg/kg     | 0.000196 %   |                      |            |                |
|    | 601-036-00-5                                                                                                                                                                           | 205-916-6                      | 207-08-9                       |          |                   |              |                |              |                      |            |                |
| 25 | chrysene                                                                                                                                                                               |                                |                                |          | 3.96 mg/kg        |              | 3.96 mg/kg     | 0.000396 %   |                      |            |                |
|    | 601-048-00-0                                                                                                                                                                           | 205-923-4                      | 218-01-9                       |          |                   |              |                |              |                      |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                  |                                |                                |          | 0.51 mg/kg        |              | 0.51 mg/kg     | 0.000051 %   |                      |            |                |
|    | 601-041-00-2                                                                                                                                                                           | 200-181-8                      | 53-70-3                        |          |                   |              |                |              |                      |            |                |
| 27 | fluoranthene                                                                                                                                                                           |                                |                                |          | 12.6 mg/kg        |              | 12.6 mg/kg     | 0.00126 %    |                      |            |                |
|    |                                                                                                                                                                                        | 205-912-4                      | 206-44-0                       |          |                   |              |                |              |                      |            |                |

| #      | Determinand             |              |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------|--------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number     | EC Number    | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 28     | fluorene                | 201-695-5    | 86-73-7                                                                                         |          | 0.99 mg/kg        |              | 0.99 mg/kg     | 0.000099 %           |            |                |
| 29     | indeno[123-cd]pyrene    | 205-893-2    | 193-39-5                                                                                        |          | 2.17 mg/kg        |              | 2.17 mg/kg     | 0.000217 %           |            |                |
| 30     | naphthalene             | 202-049-5    | 91-20-3                                                                                         |          | 0.37 mg/kg        |              | 0.37 mg/kg     | 0.000037 %           |            |                |
| 31     | phenanthrene            | 201-581-5    | 85-01-8                                                                                         |          | 7.61 mg/kg        |              | 7.61 mg/kg     | 0.000761 %           |            |                |
| 32     | pyrene                  | 204-927-3    | 129-00-0                                                                                        |          | 10.3 mg/kg        |              | 10.3 mg/kg     | 0.00103 %            |            |                |
| 33     | pH: acid/alkali reserve |              | ACID_ALK_RES                                                                                    |          | <0.1 gNaOH        |              | <0.1 gNaOH     | <0.1 gNaOH           |            | <LOD           |
| 34     | asbestos                | 650-013-00-6 | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | < %               |              | < %            | <                    |            | <LOD           |
| Total: |                         |              |                                                                                                 |          |                   |              |                | 0.742 %              |            |                |

**Key**

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

### Supplementary Hazardous Property Information

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

**Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because:** The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.132%)

## Classification of sample: C1583/219-Trial Hole 5F

 **Hazardous Waste**  
Classified as **17 05 03 \***  
in the List of Waste

## Sample details

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Sample name:                   | LoW Code:                                                                                 |
| <b>C1583/219-Trial Hole 5F</b> | Chapter:                                                                                  |
| Moisture content:              | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>23.6%</b>                   | Entry:                                                                                    |
| (no correction)                | 17 05 03 * (Soil and stones containing hazardous substances)                              |

## Hazard properties

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

## Determinands

Moisture content: 23.6% No Moisture Correction applied (MC)

| # | Determinand                                                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|---|--------------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|   | EU CLP index number                                                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 1 | boron { diboron trioxide }                                         |           |            |          | 2.9 mg/kg         | 3.22         | 9.338 mg/kg    | 0.000934 %           |            |                |
|   | 005-008-00-8                                                       | 215-125-8 | 1303-86-2  |          |                   |              |                |                      |            |                |
| 2 | arsenic { arsenic trioxide }                                       |           |            |          | 23.2 mg/kg        | 1.32         | 30.632 mg/kg   | 0.00306 %            |            |                |
|   | 033-003-00-0                                                       | 215-481-4 | 1327-53-3  |          |                   |              |                |                      |            |                |
| 3 | cadmium { cadmium oxide }                                          |           |            |          | 2.3 mg/kg         | 1.142        | 2.627 mg/kg    | 0.000263 %           |            |                |
|   | 048-002-00-0                                                       | 215-146-2 | 1306-19-0  |          |                   |              |                |                      |            |                |
| 4 | chromium in Cr(III) compounds { chromium(III) oxide (worst case) } |           |            |          | 84.7 mg/kg        | 1.462        | 123.794 mg/kg  | 0.0124 %             |            |                |
|   |                                                                    | 215-160-9 | 1308-38-9  |          |                   |              |                |                      |            |                |
| 5 | copper { dicopper oxide; copper (I) oxide }                        |           |            |          | 186.2 mg/kg       | 1.126        | 209.64 mg/kg   | 0.021 %              |            |                |
|   | 029-002-00-X                                                       | 215-270-7 | 1317-39-1  |          |                   |              |                |                      |            |                |
| 6 | lead { lead di(acetate) }                                          |           |            | 1        | 670.6 mg/kg       | 1.57         | 1052.772 mg/kg | 0.0671 %             |            |                |
|   | 082-005-00-8                                                       | 206-104-4 | 301-04-2   |          |                   |              |                |                      |            |                |
| 7 | mercury { mercury dichloride }                                     |           |            |          | <0.5 mg/kg        | 1.353        | <0.677 mg/kg   | <0.0000677 %         |            | <LOD           |
|   | 080-010-00-X                                                       | 231-299-8 | 7487-94-7  |          |                   |              |                |                      |            |                |
| 8 | nickel { nickel chromate }                                         |           |            |          | 60.7 mg/kg        | 2.976        | 180.659 mg/kg  | 0.0181 %             |            |                |
|   | 028-035-00-7                                                       | 238-766-5 | 14721-18-7 |          |                   |              |                |                      |            |                |

| #  | Determinand                                                                                                                                                                            |                                |                                         | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                              |          |                   |       |              |                |       |                      |            |                |
| 9  | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }                                                               |                                |                                         |          | 0.7               | mg/kg | 1.405        | 0.983          | mg/kg | 0.0000983 %          |            |                |
|    | 034-002-00-8                                                                                                                                                                           |                                |                                         |          |                   |       |              |                |       |                      |            |                |
| 10 | zinc { zinc sulphate }                                                                                                                                                                 |                                |                                         |          | 585.2             | mg/kg | 2.469        | 1445.032       | mg/kg | 0.145 %              |            |                |
|    | 030-006-00-9                                                                                                                                                                           | 231-793-3 [1]<br>231-793-3 [2] | 7446-19-7 [1]<br>7733-02-0 [2]          |          |                   |       |              |                |       |                      |            |                |
| 11 | vanadium { divanadium pentaoxide; vanadium pentoxide }                                                                                                                                 |                                |                                         |          | 46.8              | mg/kg | 1.785        | 83.547         | mg/kg | 0.00835 %            |            |                |
|    | 023-001-00-8                                                                                                                                                                           | 215-239-8                      | 1314-62-1                               |          |                   |       |              |                |       |                      |            |                |
| 12 | beryllium { beryllium chloride }                                                                                                                                                       |                                |                                         |          | 1.7               | mg/kg | 8.868        | 15.076         | mg/kg | 0.00151 %            |            |                |
|    | 004-002-00-2                                                                                                                                                                           | 232-116-4                      | 7787-47-5                               |          |                   |       |              |                |       |                      |            |                |
| 13 | chromium in Cr(VI) compounds { chromium(VI) oxide }                                                                                                                                    |                                |                                         |          | <0.1              | mg/kg | 1.923        | <0.192         | mg/kg | <0.0000192 %         |            | <LOD           |
|    | 024-001-00-0                                                                                                                                                                           | 215-607-8                      | 1333-82-0                               |          |                   |       |              |                |       |                      |            |                |
| 14 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                         |          | <0.7              | mg/kg | 1.884        | <1.319         | mg/kg | <0.000132 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                         |          |                   |       |              |                |       |                      |            |                |
| 15 | phenol                                                                                                                                                                                 |                                |                                         |          | <0.7              | mg/kg |              | <0.7           | mg/kg | <0.00007 %           |            | <LOD           |
|    | 604-001-00-2                                                                                                                                                                           | 203-632-7                      | 108-95-2                                |          |                   |       |              |                |       |                      |            |                |
| 16 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                         |          | 1510              | mg/kg |              | 1510           | mg/kg | 0.151 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                                     |          |                   |       |              |                |       |                      |            |                |
| 17 | acenaphthene                                                                                                                                                                           |                                |                                         |          | 1.14              | mg/kg |              | 1.14           | mg/kg | 0.000114 %           |            |                |
|    |                                                                                                                                                                                        | 201-469-6                      | 83-32-9                                 |          |                   |       |              |                |       |                      |            |                |
| 18 | acenaphthylene                                                                                                                                                                         |                                |                                         |          | <0.11             | mg/kg |              | <0.11          | mg/kg | <0.000011 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                                |          |                   |       |              |                |       |                      |            |                |
| 19 | anthracene                                                                                                                                                                             |                                |                                         |          | 2.4               | mg/kg |              | 2.4            | mg/kg | 0.00024 %            |            |                |
|    |                                                                                                                                                                                        | 204-371-1                      | 120-12-7                                |          |                   |       |              |                |       |                      |            |                |
| 20 | benzo[a]anthracene                                                                                                                                                                     |                                |                                         |          | 3.48              | mg/kg |              | 3.48           | mg/kg | 0.000348 %           |            |                |
|    | 601-033-00-9                                                                                                                                                                           | 200-280-6                      | 56-55-3                                 |          |                   |       |              |                |       |                      |            |                |
| 21 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     |                                |                                         |          | 3.14              | mg/kg |              | 3.14           | mg/kg | 0.000314 %           |            |                |
|    | 601-032-00-3                                                                                                                                                                           | 200-028-5                      | 50-32-8                                 |          |                   |       |              |                |       |                      |            |                |
| 22 | benzo[b]fluoranthene                                                                                                                                                                   |                                |                                         |          | 3.91              | mg/kg |              | 3.91           | mg/kg | 0.000391 %           |            |                |
|    | 601-034-00-4                                                                                                                                                                           | 205-911-9                      | 205-99-2                                |          |                   |       |              |                |       |                      |            |                |
| 23 | benzo[ghi]perylene                                                                                                                                                                     |                                |                                         |          | 1.71              | mg/kg |              | 1.71           | mg/kg | 0.000171 %           |            |                |
|    |                                                                                                                                                                                        | 205-883-8                      | 191-24-2                                |          |                   |       |              |                |       |                      |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                   |                                |                                         |          | 1.55              | mg/kg |              | 1.55           | mg/kg | 0.000155 %           |            |                |
|    | 601-036-00-5                                                                                                                                                                           | 205-916-6                      | 207-08-9                                |          |                   |       |              |                |       |                      |            |                |
| 25 | chrysene                                                                                                                                                                               |                                |                                         |          | 2.98              | mg/kg |              | 2.98           | mg/kg | 0.000298 %           |            |                |
|    | 601-048-00-0                                                                                                                                                                           | 205-923-4                      | 218-01-9                                |          |                   |       |              |                |       |                      |            |                |
| 26 | dibenz[a,h]anthracene                                                                                                                                                                  |                                |                                         |          | 0.42              | mg/kg |              | 0.42           | mg/kg | 0.000042 %           |            |                |
|    | 601-041-00-2                                                                                                                                                                           | 200-181-8                      | 53-70-3                                 |          |                   |       |              |                |       |                      |            |                |
| 27 | fluoranthene                                                                                                                                                                           |                                |                                         |          | 10.1              | mg/kg |              | 10.1           | mg/kg | 0.00101 %            |            |                |
|    |                                                                                                                                                                                        | 205-912-4                      | 206-44-0                                |          |                   |       |              |                |       |                      |            |                |
| 28 | fluorene                                                                                                                                                                               |                                |                                         |          | 1.11              | mg/kg |              | 1.11           | mg/kg | 0.000111 %           |            |                |
|    |                                                                                                                                                                                        | 201-695-5                      | 86-73-7                                 |          |                   |       |              |                |       |                      |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                   |                                |                                         |          | 1.81              | mg/kg |              | 1.81           | mg/kg | 0.000181 %           |            |                |
|    |                                                                                                                                                                                        | 205-893-2                      | 193-39-5                                |          |                   |       |              |                |       |                      |            |                |
| 30 | naphthalene                                                                                                                                                                            |                                |                                         |          | 0.64              | mg/kg |              | 0.64           | mg/kg | 0.000064 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                                 |          |                   |       |              |                |       |                      |            |                |
| 31 | phenanthrene                                                                                                                                                                           |                                |                                         |          | 6.76              | mg/kg |              | 6.76           | mg/kg | 0.000676 %           |            |                |
|    |                                                                                                                                                                                        | 201-581-5                      | 85-01-8                                 |          |                   |       |              |                |       |                      |            |                |
| 32 | pyrene                                                                                                                                                                                 |                                |                                         |          | 8.28              | mg/kg |              | 8.28           | mg/kg | 0.000828 %           |            |                |
|    |                                                                                                                                                                                        | 204-927-3                      | 129-00-0                                |          |                   |       |              |                |       |                      |            |                |
| 33 | pH: acid/alkali reserve                                                                                                                                                                |                                |                                         |          | <0.1              | gNaOH |              | <0.1           | gNaOH | <0.1 gNaOH           |            | <LOD           |
|    |                                                                                                                                                                                        |                                | ACID_ALK_RES                            |          |                   |       |              |                |       |                      |            |                |
| 34 | asbestos                                                                                                                                                                               |                                |                                         |          | <                 | %     |              | <              | %     | <                    |            | <LOD           |
|    | 650-013-00-6                                                                                                                                                                           | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5 |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand         |           |                                                      | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---------------------|-----------|------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number | EC Number | CAS Number                                           |          |                   |              |                |                      |            |                |
|        |                     |           | 77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          |                   |              |                |                      |            |                |
| Total: |                     |           |                                                      |          |                   |              |                | 0.433 %              |            |                |

**Key**

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
|             | User supplied data                                                                                                              |
|             | Determinand values ignored for classification, see column 'Conc. Not Used' for reason                                           |
|             | Hazardous result                                                                                                                |
|             | Determinand defined or amended by HazWasteOnline (see Appendix A)                                                               |
|             | Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration |
| <LOD        | Below limit of detection                                                                                                        |
| CLP: Note 1 | Only the metal concentration has been used for classification                                                                   |

**Supplementary Hazardous Property Information**

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

**Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 5000 mg/kg (0.5%) because:** The hazard phase HP 3(i) refers to flammable liquids however as the material is solid this is not applicable and has been discounted from further consideration.

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.151%)

## Appendix A: Classifier defined and non GB MCL determinands

### • **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

### • **lead di(acetate)** (EC Number: 206-104-4, CAS Number: 301-04-2)

GB MCL index number: 082-005-00-8

Description/Comments: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2.

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium [www.reach-lead.eu/substanceinformation.html](http://www.reach-lead.eu/substanceinformation.html). Review date 29/09/2015

### • **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

### • **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

### • **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

### • **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

### • **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

### • **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

### • **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 06 Aug 2015  
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 06 Aug 2015  
Hazard Statements: Carc. 2; H351

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 06 Aug 2015  
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 21 Aug 2015  
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **pH: acid/alkali reserve** (CAS Number: ACID\_ALK\_RES)

Description/Comments: Appendix C4; unit: grams of sodium hydroxide (equivalent) per 100g of substance required to adjust the pH to the appropriate value  
Data source: WM3 1st Edition 2015  
Data source date: 25 May 2015  
Hazard Statements: None.

## Appendix B: Rationale for selection of metal species

### boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

### arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

### cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

### chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

### copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worst case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

### lead {lead di(acetate)}

Concentration of chromium VI is below the laboratory limit of detection, therefore the next worst case compound has been chosen.

### mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

### nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

### selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

#### zinc {zinc sulphate}

Concentration of chromium VI is below the laboratory limit of detection, therefore the next worst case compound has been chosen.

#### vanadium {divanadium pentaoxide; vanadium pentoxide}

Most likely worst case scenario

#### beryllium {beryllium chloride}

Most likely worst case scenario.

#### chromium in Cr(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

#### cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

### Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2025.322.6869.12419 (18 Nov 2025)

HazWasteOnline Database: 2025.321.6868.12417 (17 Nov 2025)

This classification utilises the following guidance and legislation:

**WM3 v1.2.GB - Waste Classification** - 1st Edition v1.2.GB - Oct 2021

**CLP Regulation** - Regulation 1272/2008/EC of 16 December 2008

**1st ATP** - Regulation 790/2009/EC of 10 August 2009

**2nd ATP** - Regulation 286/2011/EC of 10 March 2011

**3rd ATP** - Regulation 618/2012/EU of 10 July 2012

**4th ATP** - Regulation 487/2013/EU of 8 May 2013

**Correction to 1st ATP** - Regulation 758/2013/EU of 7 August 2013

**5th ATP** - Regulation 944/2013/EU of 2 October 2013

**6th ATP** - Regulation 605/2014/EU of 5 June 2014

**WFD Annex III replacement** - Regulation 1357/2014/EU of 18 December 2014

**Revised List of Waste 2014** - Decision 2014/955/EU of 18 December 2014

**7th ATP** - Regulation 2015/1221/EU of 24 July 2015

**8th ATP** - Regulation (EU) 2016/918 of 19 May 2016

**9th ATP** - Regulation (EU) 2016/1179 of 19 July 2016

**10th ATP** - Regulation (EU) 2017/776 of 4 May 2017

**HP14 amendment** - Regulation (EU) 2017/997 of 8 June 2017

**13th ATP** - Regulation (EU) 2018/1480 of 4 October 2018

**14th ATP** - Regulation (EU) 2020/217 of 4 October 2019

**15th ATP** - Regulation (EU) 2020/1182 of 19 May 2020

**The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)**

**Regulations 2020** - UK: 2020 No. 1567 of 16th December 2020

**The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020** - UK: 2020 No. 1540 of 16th December 2020

**GB MCL List** - version 1.1 of 09 June 2021

**GB MCL List v2.0** - version 2.0 of 20th October 2023

**GB MCL List v3.0** - version 3.0 of 11th January 2024

**GB MCL List v4.0** - version 4.0 of 2nd March 2024

**GB MCL List v5.0** - version 5.0 of 26th June 2024

**GB MCL List v6.0** - version 6.0 of 15th February 2025

**GB MCL List v7.0** - version 7.0 of 23rd September 2025

## Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

## Analysis Method

| <u>Method Code</u> | <u>Method Description</u>                            | <u>Analysis Method</u> |
|--------------------|------------------------------------------------------|------------------------|
| AAR                | Acid/Alkali Reserve                                  | Air Dried & Ground     |
| CALC_CR3           | Chromium III (Trivalent) (Calc)                      | Air Dried & Ground     |
| CLANDPREP          | CLand Prep and Dry Weight Correction to 35°C         | As Received            |
| CLANDPREP          | Solid Material Description                           | As Received            |
| GROHSA             | GRO (>C6-C10) Total                                  | As Received            |
| ICPBOR             | Boron (Water Soluble) by ICPOES                      | Air Dried & Ground     |
| ICPMSS             | Arsenic in Solids by ICPMS                           | Air Dried & Ground     |
| ICPMSS             | Cadmium in Solids by ICPMS                           | Air Dried & Ground     |
| ICPMSS             | Chromium in Solids by ICPMS                          | Air Dried & Ground     |
| ICPMSS             | Copper in Solids by ICPMS                            | Air Dried & Ground     |
| ICPMSS             | Lead in Solids by ICPMS                              | Air Dried & Ground     |
| ICPMSS             | Mercury in Solids by ICPMS                           | Air Dried & Ground     |
| ICPMSS             | Nickel in Solids by ICPMS                            | Air Dried & Ground     |
| ICPMSS             | Selenium in Solids by ICPMS                          | Air Dried & Ground     |
| ICPMSS             | Vanadium in Solids by ICPMS                          | Air Dried & Ground     |
| ICPMSS             | Zinc in Solids by ICPMS                              | Air Dried & Ground     |
| ICPSOIL            | Beryllium in Solids by ICPOES                        | Air Dried & Ground     |
| KONENS             | Chromium VI (Hexavalent) by Colorimetry              | Air Dried & Ground     |
| PAHMSUS            | 16 PAHs by GCMS                                      | As Received            |
| SFAPI              | Cyanide (Free) by SFA                                | As Received            |
| SFAPI              | Phenol Index (Total) by SFA                          | As Received            |
| SUB020             | Asbestos Stage 1 (with Stage 2 Trigger)              |                        |
| SUB020             | Asbestos Stage 2: Quantification                     |                        |
| SUB026             | CON-NOR Interpretive Report - Solids (Per Sample)    | As Received            |
| SUB035             | Asbestos Stage 1 (with Stage 2 Trigger)              |                        |
| SUB035             | Asbestos Stage 2: Quantification                     |                        |
| TPHCALC            | TPH (>C6-C40) Total (>C10-C40 SCU) (Calc)            | As Received            |
| TPHFIDUS (SCU)     | TPH (>C10-C35) Banded plus (>C10-C40) Total with SCU | As Received            |

**Project Number: 25110354**

**Client:** Earthworks Testing Ltd  
**Date Issued:** 21/11/2025  
**Project Name:** C1583 - Dove Valley Park

**Result Report Notes**

Letters alongside results signify that the result has associated report notes.  
The report notes are as follows:

| <b><u>Letter</u></b> | <b><u>Note</u></b>                                                                                                                                                                                                                                                                                                           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A                    | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.                                                |
| B                    | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.                                      |
| C                    | Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.                                                                                                                                                        |
| D                    | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.                                                                                                                                                                                                                    |
| E                    | Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F                    | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.                           |
| G                    | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.                                                                                                                                                   |

**HWOL Acronym Key**

| <b><u>Acronym</u></b> | <b><u>Description</u></b>                                             |
|-----------------------|-----------------------------------------------------------------------|
| HS                    | Headspace Analysis                                                    |
| EH                    | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU                    | Clean up - e.g. by florisil, silica gel                               |
| 1D                    | GC - Single coil gas chromatography                                   |
| Total                 | Aliphatics & Aromatics                                                |
| AL                    | Aliphatics only                                                       |
| AR                    | Aromatics only                                                        |
| +                     | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total                |



**Project Number: 25110354**

**Client:** Earthworks Testing Ltd  
**Date Issued:** 21/11/2025  
**Project Name:** C1583 - Dove Valley Park

#### Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis  
M = MCERT accredited analysis  
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

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

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with \* are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis  
NA = Sample is not amenable for the required analysis  
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

### **End of Certificate of Analysis**

|                                                                            |                      |                    |               |
|----------------------------------------------------------------------------|----------------------|--------------------|---------------|
| Laboratory Report                                                          | ETS/23999-24005      | Contract Sample No | C1583/213-219 |
| Report Date                                                                | 26 November 2025     | ETS Contract No    | C1583/213-219 |
| Collins Earthworks Ltd<br>Whiteley Road<br>Ripley<br>Derbyshire<br>DE5 3QL | Material Description | See Below          |               |
| Dove Valley Park                                                           | Source               | Ex-Site            |               |
|                                                                            | Supplier             | Ex-Site            |               |
|                                                                            | Date Sampled         | 28/10/2025         |               |
|                                                                            | Date Received        | 28/10/2025         |               |
|                                                                            | Date Completed       | 21/11/2025         |               |
|                                                                            | Sample Location      | See Below          |               |
|                                                                            | Client Reference     | C1583/213-219      |               |



Unit 6 Eco Park, Eco Way  
Bootham Lane  
Dunscroft  
Doncaster  
DN7 4JJ

Tel: 0345 2162900  
Email: ops@earthworkstesting.co.uk

**Testing Lab:** Socotec

**Report Number:** 25110354

| ETS Number | Sample Number | Location                      | Material                          | Testing   |
|------------|---------------|-------------------------------|-----------------------------------|-----------|
| ETS/23999  | 213           | W8 Layer 3                    | Brown Clay W/F-M Gravel (Class 7) | WM3 Suite |
| ETS/24000  | 214           | Marl Pit - Deep Trial Hole 5A | Brown Clay W/F-M Gravel           | WM3 Suite |
| ETS/24001  | 215           | Marl Pit - Deep Trial Hole 5B | Brown Clay W/F-M Gravel           | WM3 Suite |
| ETS/24002  | 216           | Marl Pit - Deep Trial Hole 5C | Brown Clay W/F-M Gravel           | WM3 Suite |
| ETS/24003  | 217           | Marl Pit - Deep Trial Hole 5D | Brown Clay W/F-M Gravel           | WM3 Suite |
| ETS/24004  | 218           | Marl Pit - Deep Trial Hole 5E | Brown Clay W/F-M Gravel           | WM3 Suite |
| ETS/24005  | 219           | Marl Pit - Deep Trial Hole 5F | Brown Clay W/F-M Gravel           | WM3 Suite |

Authorised Signatory

T. McDonald

## Certificate of Analysis

**Client:** Earthworks Testing Ltd

**Project:** 25110354

**Quote:** BEC251043149 V1.2

**Project Ref:** C1583

**Site:** Dove Valley Park

**Contact:** Helen Slinn

**Address:** Unit 6 Eco Business Park  
Eco Way  
Dunscroft  
Doncaster  
DN7 4JJ

**E-Mail:** [hs@earthworkstesting.co.uk](mailto:hs@earthworkstesting.co.uk)

**Phone:** 1

**No. Samples Received:** 6

**Date Received:** 05/11/2025

**Analysis Completed:** 21/11/2025

**Date Issued:** 21/11/2025

**Report Type:** Version 02

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator  
Julie Dickinson  
01283 204 384  
[Julie.Dickinson@socotec.co.uk](mailto:Julie.Dickinson@socotec.co.uk)