

Portway Plant Ltd  
Holly Farm  
Whitepits Lane  
Portway  
Birmingham  
B48 7HP

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

t:

e: jberry.portway@googlemail.com  
ichambers.portway@googlemail.com

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

## **Analytical Report Number : 25-049532**

|                             |                |                                                        |            |
|-----------------------------|----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Knowsley       | <b>Samples received on:</b>                            | 15/09/2025 |
| <b>Your job number:</b>     |                | <b>Samples instructed on/<br/>Analysis started on:</b> | 15/09/2025 |
| <b>Your order number:</b>   |                | <b>Analysis completed by:</b>                          | 23/09/2025 |
| <b>Report Issue Number:</b> | 1              | <b>Report issued on:</b>                               | 23/09/2025 |
| <b>Samples Analysed:</b>    | 3 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: 25-049532

Project / Site name: Knowsley

|                                         |               |                            |                              |
|-----------------------------------------|---------------|----------------------------|------------------------------|
| Lab Sample Number                       | 681810        | 681811                     | 681812                       |
| Sample Reference                        | D 5.1         | D 5.2                      | E 5.1                        |
| Sample Number                           | None Supplied | None Supplied              | None Supplied                |
| Water Matrix                            | N/A           | N/A                        | N/A                          |
| Depth (m)                               | 1.00          | 2.50                       | 2.50                         |
| Date Sampled                            | 10/09/2025    | 10/09/2025                 | 10/09/2025                   |
| 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 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 16    | 20    | 13    |
| Total mass of sample received | kg | 0.1  | NONE | 0.1   | 0.1   | 0.1   |

#### VOCs

|                                       |       |    |        |       |       |       |
|---------------------------------------|-------|----|--------|-------|-------|-------|
| Chloromethane                         | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Chloroethane                          | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Bromomethane                          | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Vinyl Chloride                        | µg/kg | 5  | NONE   | < 5.0 | < 5.0 | < 5.0 |
| Trichlorofluoromethane                | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,1-Dichloroethene                    | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Trans 1,2-dichloroethylene            | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| MTBE (Methyl Tertiary Butyl Ether)    | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,1-Dichloroethane                    | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 2,2-Dichloropropane                   | µg/kg | 5  | NONE   | < 5.0 | < 5.0 | < 5.0 |
| Chloroform                            | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | 210   |
| 1,1,1-Trichloroethane                 | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dichloroethane                    | µg/kg | 7  | MCERTS | < 7.0 | < 7.0 | < 7.0 |
| 1,1-Dichloropropene                   | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Cis-1,2-dichloroethene                | µg/kg | 5  | MCERTS | 79    | < 5.0 | < 5.0 |
| Benzene                               | µg/kg | 5  | MCERTS | 62    | < 5.0 | < 5.0 |
| Carbontetrachloride                   | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dichloropropane                   | µg/kg | 6  | MCERTS | < 6.0 | < 6.0 | < 6.0 |
| Trichloroethene                       | µg/kg | 10 | MCERTS | 130   | < 10  | < 10  |
| Dibromomethane                        | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Bromodichloromethane                  | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Cis-1,3-dichloropropene               | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Trans-1,3-dichloropropene             | µg/kg | 10 | MCERTS | < 10  | < 10  | < 10  |
| Toluene                               | µg/kg | 5  | MCERTS | 220   | 120   | 650   |
| 1,1,2-Trichloroethane                 | µg/kg | 6  | MCERTS | < 6.0 | < 6.0 | < 6.0 |
| 1,3-Dichloropropane                   | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Dibromochloromethane                  | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Tetrachloroethene                     | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,2-Dibromoethane                     | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Chlorobenzene                         | µg/kg | 5  | MCERTS | 2400  | 1700  | 2000  |
| 1,1,1,2-Tetrachloroethane             | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene                          | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene                          | µg/kg | 8  | MCERTS | < 8.0 | 43    | 65    |
| Styrene                               | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| Bromoform                             | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| o-Xylene                              | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | 45    |
| Isopropylbenzene                      | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,1,2,2-Tetrachloroethane             | µg/kg | 5  | NONE   | < 5.0 | < 5.0 | < 5.0 |
| Bromobenzene                          | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| n-Propylbenzene                       | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 2-Chlorotoluene                       | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 4-Chlorotoluene                       | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| 1,3,5-Trimethylbenzene                | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |
| tert-Butylbenzene                     | µg/kg | 5  | MCERTS | < 5.0 | < 5.0 | < 5.0 |

Analytical Report Number: 25-049532

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| Lab Sample Number                       |       |                            |                              | 681810               | 681811                | 681812                   |
|-----------------------------------------|-------|----------------------------|------------------------------|----------------------|-----------------------|--------------------------|
| Sample Reference                        |       |                            |                              | D 5.1                | D 5.2                 | E 5.1                    |
| Sample Number                           |       |                            |                              | None Supplied        | None Supplied         | None Supplied            |
| Water Matrix                            |       |                            |                              | N/A                  | N/A                   | N/A                      |
| Depth (m)                               |       |                            |                              | 1.00                 | 2.50                  | 2.50                     |
| Date Sampled                            |       |                            |                              | 10/09/2025           | 10/09/2025            | 10/09/2025               |
| Time Taken                              |       |                            |                              | None Supplied        | None Supplied         | None Supplied            |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |                      |                       |                          |
| 1,2,4-Trimethylbenzene                  | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| sec-Butylbenzene                        | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| 1,3-Dichlorobenzene                     | µg/kg | 5                          | MCERTS                       | 2200                 | 79                    | 920                      |
| p-Isopropyltoluene                      | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| 1,4-Dichlorobenzene                     | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| 1,2-Dichlorobenzene                     | µg/kg | 5                          | MCERTS                       | 43000 <sup>\$%</sup> | 110000 <sup>\$%</sup> | 110000 <sup>&amp;+</sup> |
| Butylbenzene                            | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| 1,2-Dibromo-3-chloropropane             | µg/kg | 8                          | MCERTS                       | < 8.0                | < 8.0                 | < 8.0                    |
| 1,2,4-Trichlorobenzene                  | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | 43                       |
| Hexachlorobutadiene                     | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |
| 1,2,3-Trichlorobenzene                  | µg/kg | 5                          | MCERTS                       | < 5.0                | < 5.0                 | < 5.0                    |

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

**Analytical Report Number : 25-049532**

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\* 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 * |
|-------------------|------------------|---------------|-----------|----------------------|
| 681810            | D 5.1            | None Supplied | 1         | Brown clay and sand  |
| 681811            | D 5.2            | None Supplied | 2.5       | Brown clay and sand  |
| 681812            | E 5.1            | None Supplied | 2.5       | Brown clay and sand  |

**Analytical Report Number : 25-049532**

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**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 |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| 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                 |
| 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               |
| 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

\$%- Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

&+- Result is above calibration range after the maximum dilution has been applied. The result should be considered the minimum value. The actual result could be significantly higher. This result is not accredited.