



Beth Garratty  
Earth Environmental & Geotechnical Ltd  
Houldsworth Mill Business Centre  
Houldsworth Street  
Reddish  
Stockport  
Cheshire  
SK5 6DA

**Derwentside Environmental Testing Services Ltd**  
Unit 1  
Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Kent  
ME17 2JN  
t: 01622 850410

## **DETS Report No: 23-01185**

**Site Reference:** Dobfield Road

**Project / Job Ref:** A5182

**Order No:** A5182/BG

**Sample Receipt Date:** 31/01/2023

**Sample Scheduled Date:** 31/01/2023

**Report Issue Number:** 1

**Reporting Date:** 07/02/2023

**Authorised by:**

Dave Ashworth  
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Soil Analysis Certificate                         |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01185</b>                   | <b>Date Sampled</b>    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road</b>              | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP8           | TP7           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/BG</b>                         | <b>Depth (m)</b>       | 0.20          | 0.60          | 0.80          | 0.50          | 0.30          |
| <b>Reporting Date: 07/02/2023</b>                 | <b>DETS Sample No</b>  | 631058        | 631059        | 631060        | 631061        | 631062        |

| Determinand                           | Unit     | RL     | Accreditation |              |              |              |              |              |
|---------------------------------------|----------|--------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>        | N/a      | N/a    | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| pH                                    | pH Units | N/a    | MCERTS        | 5.1          | 6.0          | 6.4          | 5.3          | 5.7          |
| Total Cyanide                         | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Complex Cyanide                       | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Free Cyanide                          | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Total Sulphate as SO <sub>4</sub>     | mg/kg    | < 200  | MCERTS        | 883          | 596          | 557          | 537          | 886          |
| Total Sulphate as SO <sub>4</sub>     | %        | < 0.02 | MCERTS        | 0.09         | 0.06         | 0.06         | 0.05         | 0.09         |
| W/S Sulphate as SO <sub>4</sub> (2:1) | mg/l     | < 10   | MCERTS        | < 10         | 12           | < 10         | 13           | 30           |
| W/S Sulphate as SO <sub>4</sub> (2:1) | g/l      | < 0.01 | MCERTS        | < 0.01       | 0.01         | < 0.01       | 0.01         | 0.03         |
| Sulphide                              | mg/kg    | < 5    | NONE          | < 5          | < 5          | < 5          | < 5          | < 5          |
| Organic Matter (SOM)                  | %        | < 0.1  | MCERTS        | 13.3         | 6.6          | 4.3          | 3.5          | 9            |
| Arsenic (As)                          | mg/kg    | < 2    | MCERTS        | 41           | 14           | 13           | 11           | 11           |
| Barium (Ba)                           | mg/kg    | < 2.5  | MCERTS        | 232          | 151          | 113          | 93           | 617          |
| Beryllium (Be)                        | mg/kg    | < 0.5  | MCERTS        | 1.1          | 0.9          | 1            | 1.1          | < 0.5        |
| W/S Boron                             | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                          | mg/kg    | < 0.2  | MCERTS        | < 0.2        | < 0.2        | 0.3          | < 0.2        | 0.7          |
| Chromium (Cr)                         | mg/kg    | < 2    | MCERTS        | 17           | 14           | 20           | 18           | 21           |
| Chromium (hexavalent)                 | mg/kg    | < 2    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| Copper (Cu)                           | mg/kg    | < 4    | MCERTS        | 65           | 37           | 31           | 29           | 155          |
| Lead (Pb)                             | mg/kg    | < 3    | MCERTS        | 156          | 73           | 75           | 45           | 883          |
| Mercury (Hg)                          | mg/kg    | < 1    | MCERTS        | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                           | mg/kg    | < 3    | MCERTS        | 19           | 16           | 18           | 18           | 26           |
| Selenium (Se)                         | mg/kg    | < 2    | MCERTS        | < 2          | < 2          | < 2          | < 2          | < 2          |
| Vanadium (V)                          | mg/kg    | < 1    | MCERTS        | 33           | 22           | 28           | 25           | 29           |
| Zinc (Zn)                             | mg/kg    | < 3    | MCERTS        | 77           | 60           | 85           | 65           | 430          |
| Total Phenols (monohydric)            | mg/kg    | < 1    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| EPH (C10 - C40) : EH 1D Total         | mg/kg    | < 6    | MCERTS        | < 6          | < 6          | < 6          | 20           | 1500         |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate              |                 |               |               |               |               |               |
|----------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185               | Date Sampled    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| Earth Environmental & Geotechnical Ltd | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road          | TP / BH No      | TP6           | TP4           | TP5           | TP9           | WS7           |
| Project / Job Ref: A5182               | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                     | Depth (m)       | 0.70          | 0.50          | 0.40          | 0.20          | 0.50          |
| Reporting Date: 07/02/2023             | DETS Sample No  | 631063        | 631064        | 631065        | 631066        | 631067        |

| Determinand                           | Unit     | RL     | Accreditation |              |              |              |              |              |
|---------------------------------------|----------|--------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>        | N/a      | N/a    | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| pH                                    | pH Units | N/a    | MCERTS        | 5.2          | 6.1          | 5.8          | 5.6          | 6.9          |
| Total Cyanide                         | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Complex Cyanide                       | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Free Cyanide                          | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Total Sulphate as SO <sub>4</sub>     | mg/kg    | < 200  | MCERTS        | 564          | 796          | 527          | 587          | 1243         |
| Total Sulphate as SO <sub>4</sub>     | %        | < 0.02 | MCERTS        | 0.06         | 0.08         | 0.05         | 0.06         | 0.12         |
| W/S Sulphate as SO <sub>4</sub> (2:1) | mg/l     | < 10   | MCERTS        | < 10         | < 10         | < 10         | < 10         | 164          |
| W/S Sulphate as SO <sub>4</sub> (2:1) | g/l      | < 0.01 | MCERTS        | 0.01         | < 0.01       | < 0.01       | < 0.01       | 0.16         |
| Sulphide                              | mg/kg    | < 5    | NONE          | < 5          | < 5          | < 5          | < 5          | < 5          |
| Organic Matter (SOM)                  | %        | < 0.1  | MCERTS        | 5.5          | 6.9          | 5.2          | 7            | 6.7          |
| Arsenic (As)                          | mg/kg    | < 2    | MCERTS        | 16           | 26           | 15           | 16           | 7            |
| Barium (Ba)                           | mg/kg    | < 2.5  | MCERTS        | 129          | 992          | 103          | 178          | 107          |
| Beryllium (Be)                        | mg/kg    | < 0.5  | MCERTS        | 0.8          | 1            | 0.7          | 1            | < 0.5        |
| W/S Boron                             | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                          | mg/kg    | < 0.2  | MCERTS        | < 0.2        | 0.3          | < 0.2        | 0.2          | 0.2          |
| Chromium (Cr)                         | mg/kg    | < 2    | MCERTS        | 16           | 23           | 16           | 16           | 14           |
| Chromium (hexavalent)                 | mg/kg    | < 2    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| Copper (Cu)                           | mg/kg    | < 4    | MCERTS        | 46           | 91           | 48           | 48           | 22           |
| Lead (Pb)                             | mg/kg    | < 3    | MCERTS        | 123          | 939          | 84           | 84           | 34           |
| Mercury (Hg)                          | mg/kg    | < 1    | MCERTS        | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                           | mg/kg    | < 3    | MCERTS        | 16           | 18           | 14           | 16           | 14           |
| Selenium (Se)                         | mg/kg    | < 2    | MCERTS        | < 2          | < 2          | < 2          | < 2          | < 2          |
| Vanadium (V)                          | mg/kg    | < 1    | MCERTS        | 26           | 30           | 26           | 28           | 24           |
| Zinc (Zn)                             | mg/kg    | < 3    | MCERTS        | 107          | 283          | 63           | 74           | 74           |
| Total Phenols (monohydric)            | mg/kg    | < 1    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| EPH (C10 - C40) : EH 1D Total         | mg/kg    | < 6    | MCERTS        | < 6          | < 6          | < 6          | < 6          | 1280         |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Soil Analysis Certificate                         |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01185</b>                   | <b>Date Sampled</b>    | 26/01/23      | 27/01/23      | 27/01/23      | 27/01/23      | 27/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road</b>              | <b>TP / BH No</b>      | WS8           | WS4           | WS10          | WS9           | WS1           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/BG</b>                         | <b>Depth (m)</b>       | 0.60          | 0.60          | 0.55          | 0.25          | 0.70          |
| <b>Reporting Date: 07/02/2023</b>                 | <b>DETS Sample No</b>  | 631068        | 631069        | 631070        | 631071        | 631072        |

| Determinand                           | Unit     | RL     | Accreditation |              |              |              |              |              |
|---------------------------------------|----------|--------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>        | N/a      | N/a    | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| pH                                    | pH Units | N/a    | MCERTS        | 6.5          | 6.3          | 5.9          | 5.1          | 5.1          |
| Total Cyanide                         | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Complex Cyanide                       | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Free Cyanide                          | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Total Sulphate as SO <sub>4</sub>     | mg/kg    | < 200  | MCERTS        | 364          | 347          | 415          | 569          | 665          |
| Total Sulphate as SO <sub>4</sub>     | %        | < 0.02 | MCERTS        | 0.04         | 0.03         | 0.04         | 0.06         | 0.07         |
| W/S Sulphate as SO <sub>4</sub> (2:1) | mg/l     | < 10   | MCERTS        | 13           | < 10         | < 10         | < 10         | 11           |
| W/S Sulphate as SO <sub>4</sub> (2:1) | g/l      | < 0.01 | MCERTS        | 0.01         | < 0.01       | < 0.01       | < 0.01       | 0.01         |
| Sulphide                              | mg/kg    | < 5    | NONE          | < 5          | < 5          | < 5          | < 5          | < 5          |
| Organic Matter (SOM)                  | %        | < 0.1  | MCERTS        | 2.4          | 1.9          | 3.4          | 4.4          | 2.9          |
| Arsenic (As)                          | mg/kg    | < 2    | MCERTS        | 8            | 6            | 8            | 14           | 8            |
| Barium (Ba)                           | mg/kg    | < 2.5  | MCERTS        | 58           | 45           | 74           | 97           | 42           |
| Beryllium (Be)                        | mg/kg    | < 0.5  | MCERTS        | 0.5          | < 0.5        | 0.7          | 0.8          | 0.5          |
| W/S Boron                             | mg/kg    | < 1    | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                          | mg/kg    | < 0.2  | MCERTS        | < 0.2        | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| Chromium (Cr)                         | mg/kg    | < 2    | MCERTS        | 17           | 15           | 16           | 16           | 19           |
| Chromium (hexavalent)                 | mg/kg    | < 2    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| Copper (Cu)                           | mg/kg    | < 4    | MCERTS        | 19           | 14           | 22           | 30           | 17           |
| Lead (Pb)                             | mg/kg    | < 3    | MCERTS        | 24           | 17           | 42           | 64           | 20           |
| Mercury (Hg)                          | mg/kg    | < 1    | MCERTS        | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                           | mg/kg    | < 3    | MCERTS        | 14           | 12           | 15           | 13           | 13           |
| Selenium (Se)                         | mg/kg    | < 2    | MCERTS        | < 2          | < 2          | < 2          | < 2          | < 2          |
| Vanadium (V)                          | mg/kg    | < 1    | MCERTS        | 23           | 21           | 22           | 24           | 29           |
| Zinc (Zn)                             | mg/kg    | < 3    | MCERTS        | 50           | 53           | 60           | 61           | 36           |
| Total Phenols (monohydric)            | mg/kg    | < 1    | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| EPH (C10 - C40) : EH 1D Total         | mg/kg    | < 6    | MCERTS        | < 6          | < 6          | < 6          | < 6          | < 6          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - Speciated PAHs |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                   | Date Sampled    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road              | TP / BH No      | TP1           | TP2           | TP3           | TP8           | TP7           |
| Project / Job Ref: A5182                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                         | Depth (m)       | 0.20          | 0.60          | 0.80          | 0.50          | 0.30          |
| Reporting Date: 07/02/2023                 | DETS Sample No  | 631058        | 631059        | 631060        | 631061        | 631062        |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 0.21  | < 0.1 | < 0.1 | 0.19  | < 0.1 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.21  | < 0.1 | < 0.1 | 0.18  | < 0.1 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 0.12  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 0.19  | < 0.1 | < 0.1 | 0.15  | < 0.1 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.17  | < 0.1 | < 0.1 | 0.15  | < 0.1 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | 0.12  | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 |



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - Speciated PAHs |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                   | Date Sampled    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road              | TP / BH No      | TP6           | TP4           | TP5           | TP9           | WS7           |
| Project / Job Ref: A5182                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                         | Depth (m)       | 0.70          | 0.50          | 0.40          | 0.20          | 0.50          |
| Reporting Date: 07/02/2023                 | DETS Sample No  | 631063        | 631064        | 631065        | 631066        | 631067        |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.26  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 0.15  | 0.21  | < 0.1 | 0.13  | 0.53  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.14  | 0.18  | < 0.1 | 0.13  | 0.57  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.33  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.36  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.15  | < 0.1 | < 0.1 | 0.75  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.26  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.82  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.53  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.47  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | < 1.6 | < 1.6 | < 1.6 | 4.9   |



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - Speciated PAHs |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                   | Date Sampled    | 26/01/23      | 27/01/23      | 27/01/23      | 27/01/23      | 27/01/23      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road              | TP / BH No      | WS8           | WS4           | WS10          | WS9           | WS1           |
| Project / Job Ref: A5182                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                         | Depth (m)       | 0.60          | 0.60          | 0.55          | 0.25          | 0.70          |
| Reporting Date: 07/02/2023                 | DETS Sample No  | 631068        | 631069        | 631070        | 631071        | 631072        |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | 0.14  | < 0.1 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | 0.13  | < 0.1 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



**Soil Analysis Certificate - TPH CWG Banded**

|                                                   |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01185</b>                   | <b>Date Sampled</b>    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road</b>              | <b>TP / BH No</b>      | TP1           | TP2           | TP3           | TP8           | TP7           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/BG</b>                         | <b>Depth (m)</b>       | 0.20          | 0.60          | 0.80          | 0.50          | 0.30          |
| <b>Reporting Date: 07/02/2023</b>                 | <b>DETS Sample No</b>  | 631058        | 631059        | 631060        | 631061        | 631062        |

| Determinand                                      | Unit  | RL     | Accreditation |        |        |        |        |        |
|--------------------------------------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6 :<br>HS_1D_MS_AL              | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8 :<br>HS_1D_MS_AL              | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10 :<br>EH_CU_1D_AL             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 :<br>EH_CU_1D_AL            | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | 25     |
| Aliphatic >C21 - C34 :<br>EH_CU_1D_AL            | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | 510    |
| Aliphatic (C5 - C34) :<br>HS_1D_MS+EH_CU_1D_AL   | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | 535    |
| Aromatic >C5 - C7 :<br>HS_1D_MS_AR               | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8 :<br>HS_1D_MS_AR               | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10 :<br>EH_CU_1D_AR              | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21 :<br>EH_CU_1D_AR             | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | 18     |
| Aromatic >C21 - C35 :<br>EH_CU_1D_AR             | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | 533    |
| Aromatic (C5 - C35) :<br>HS_1D_MS+EH_CU_1D_AR    | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | 551    |
| Total >C5 - C35 :<br>HS_1D_MS+EH_CU_1D_Tot<br>al | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | 1086   |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



**Soil Analysis Certificate - TPH CWG Banded**

|                                                   |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01185</b>                   | <b>Date Sampled</b>    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road</b>              | <b>TP / BH No</b>      | TP6           | TP4           | TP5           | TP9           | WS7           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/BG</b>                         | <b>Depth (m)</b>       | 0.70          | 0.50          | 0.40          | 0.20          | 0.50          |
| <b>Reporting Date: 07/02/2023</b>                 | <b>DETS Sample No</b>  | 631063        | 631064        | 631065        | 631066        | 631067        |

| Determinand                                      | Unit  | RL     | Accreditation |        |        |        |        |        |
|--------------------------------------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6 :<br>HS_1D_MS_AL              | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8 :<br>HS_1D_MS_AL              | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10 :<br>EH_CU_1D_AL             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 10     |
| Aliphatic >C10 - C12 :<br>EH_CU_1D_AL            | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 25     |
| Aliphatic >C12 - C16 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | 118    |
| Aliphatic >C16 - C21 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | 154    |
| Aliphatic >C21 - C34 :<br>EH_CU_1D_AL            | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | 266    |
| Aliphatic (C5 - C34) :<br>HS_1D_MS+EH_CU_1D_AL   | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | 573    |
| Aromatic >C5 - C7 :<br>HS_1D_MS_AR               | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8 :<br>HS_1D_MS_AR               | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10 :<br>EH_CU_1D_AR              | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 4      |
| Aromatic >C10 - C12 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 5      |
| Aromatic >C12 - C16 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 24     |
| Aromatic >C16 - C21 :<br>EH_CU_1D_AR             | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | 34     |
| Aromatic >C21 - C35 :<br>EH_CU_1D_AR             | mg/kg | < 10   | MCERTS        | < 10   | 15     | < 10   | < 10   | 218    |
| Aromatic (C5 - C35) :<br>HS_1D_MS+EH_CU_1D_AR    | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | 286    |
| Total >C5 - C35 :<br>HS_1D_MS+EH_CU_1D_Tot<br>al | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | 859    |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



# **Soil Analysis Certificate - TPH CWG Banded**

|                                                   |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01185</b>                   | <b>Date Sampled</b>    | 26/01/23      | 27/01/23      | 27/01/23      | 27/01/23      | 27/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road</b>              | <b>TP / BH No</b>      | WS8           | WS4           | WS10          | WS9           | WS1           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/BG</b>                         | <b>Depth (m)</b>       | 0.60          | 0.60          | 0.55          | 0.25          | 0.70          |
| <b>Reporting Date: 07/02/2023</b>                 | <b>DETS Sample No</b>  | 631068        | 631069        | 631070        | 631071        | 631072        |

| Determinand                                      | Unit  | RL     | Accreditation |        |        |        |        |        |
|--------------------------------------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6 :<br>HS_1D_MS_AL              | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8 :<br>HS_1D_MS_AL              | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10 :<br>EH_CU_1D_AL             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 :<br>EH_CU_1D_AL            | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 :<br>EH_CU_1D_AL            | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 :<br>EH_CU_1D_AL            | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) :<br>HS_1D_MS+EH_CU_1D_AL   | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7 :<br>HS_1D_MS_AR               | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8 :<br>HS_1D_MS_AR               | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10 :<br>EH_CU_1D_AR              | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16 :<br>EH_CU_1D_AR             | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21 :<br>EH_CU_1D_AR             | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aromatic >C21 - C35 :<br>EH_CU_1D_AR             | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aromatic (C5 - C35) :<br>HS_1D_MS+EH_CU_1D_AR    | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Total >C5 - C35 :<br>HS_1D_MS+EH_CU_1D_Tot<br>al | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | < 42   |



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - BTEX / MTBE |                 |               |               |               |               |               |
|-----------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                | Date Sampled    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| Earth Environmental & Geotechnical Ltd  | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road           | TP / BH No      | TP1           | TP2           | TP3           | TP8           | TP7           |
| Project / Job Ref: A5182                | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                      | Depth (m)       | 0.20          | 0.60          | 0.80          | 0.50          | 0.30          |
| Reporting Date: 07/02/2023              | DETS Sample No  | 631058        | 631059        | 631060        | 631061        | 631062        |

| Determinand             | Unit  | RL  | Accreditation |     |     |     |     |     |
|-------------------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene : HS_1D_MS      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene : HS_1D_MS      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene : HS_1D_MS     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE : HS_1D_MS         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - BTEX / MTBE |                 |               |               |               |               |               |
|-----------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                | Date Sampled    | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      | 26/01/23      |
| Earth Environmental & Geotechnical Ltd  | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road           | TP / BH No      | TP6           | TP4           | TP5           | TP9           | WS7           |
| Project / Job Ref: A5182                | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                      | Depth (m)       | 0.70          | 0.50          | 0.40          | 0.20          | 0.50          |
| Reporting Date: 07/02/2023              | DETS Sample No  | 631063        | 631064        | 631065        | 631066        | 631067        |

| Determinand             | Unit  | RL  | Accreditation |     |     |     |     |     |
|-------------------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene : HS_1D_MS      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene : HS_1D_MS      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | 57  |
| p & m-xylene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | 224 |
| o-xylene : HS_1D_MS     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | 160 |
| MTBE : HS_1D_MS         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



| Soil Analysis Certificate - BTEX / MTBE |                 |               |               |               |               |               |
|-----------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 23-01185                | Date Sampled    | 26/01/23      | 27/01/23      | 27/01/23      | 27/01/23      | 27/01/23      |
| Earth Environmental & Geotechnical Ltd  | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Dobfield Road           | TP / BH No      | WS8           | WS4           | WS10          | WS9           | WS1           |
| Project / Job Ref: A5182                | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A5182/BG                      | Depth (m)       | 0.60          | 0.60          | 0.55          | 0.25          | 0.70          |
| Reporting Date: 07/02/2023              | DETS Sample No  | 631068        | 631069        | 631070        | 631071        | 631072        |

| Determinand             | Unit  | RL  | Accreditation |     |     |     |     |     |
|-------------------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene : HS_1D_MS      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene : HS_1D_MS      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene : HS_1D_MS | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene : HS_1D_MS     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE : HS_1D_MS         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |

| Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3 |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|------------------------------------------------------------------|--------------|------------------------|-----------------|-----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|--------|--|
| <b>DETS Report No: 23-01185</b>                                  |              | <b>Date Sampled</b>    | 26/01/23        |                 | <b>Landfill Waste Acceptance Criteria Limits</b> |                                                                                             |                                 |        |  |
| <b>Earth Environmental &amp; Geotechnical Ltd</b>                |              | <b>Time Sampled</b>    | None Supplied   |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Site Reference: Dobfield Road</b>                             |              | <b>TP / BH No</b>      | TP1             |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Project / Job Ref: A5182</b>                                  |              | <b>Additional Refs</b> | None Supplied   |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Order No: A5182/BG</b>                                        |              | <b>Depth (m)</b>       | 0.20            |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Reporting Date: 07/02/2023</b>                                |              | <b>DETS Sample No</b>  | 631058          |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Determinand</b>                                               | <b>Unit</b>  | <b>MDL</b>             |                 |                 | <b>Inert Waste Landfill</b>                      | <b>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</b>                        | <b>Hazardous Waste Landfill</b> |        |  |
| TOC <sup>MU</sup>                                                | %            | < 0.1                  | 7.8             |                 | 3%                                               | 5%                                                                                          | 6%                              |        |  |
| Loss on Ignition                                                 | %            | < 0.01                 | 14.80           |                 | --                                               | --                                                                                          | 10%                             |        |  |
| BTEX <sup>MU</sup>                                               | mg/kg        | < 0.05                 | < 0.05          |                 | 6                                                | --                                                                                          | --                              |        |  |
| Sum of PCBs                                                      | mg/kg        | < 0.1                  | < 0.1           |                 | 1                                                | --                                                                                          | --                              |        |  |
| Mineral Oil <sup>MU</sup>                                        | mg/kg        | < 10                   | < 10            |                 | 500                                              | --                                                                                          | --                              |        |  |
| Total PAH <sup>MU</sup>                                          | mg/kg        | < 1.7                  | < 1.7           |                 | 100                                              | --                                                                                          | --                              |        |  |
| pH <sup>MU</sup>                                                 | pH Units     | N/a                    | 5.1             |                 | --                                               | >6                                                                                          | --                              |        |  |
| Acid Neutralisation Capacity                                     | mol/kg (+/-) | < 1                    | < 1             |                 | --                                               | To be evaluated                                                                             | To be evaluated                 |        |  |
| <b>Eluate Analysis</b>                                           |              |                        | <b>2:1 mg/l</b> | <b>8:1 mg/l</b> | <b>Cumulative 10:1 mg/kg</b>                     | <b>Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)</b> |                                 |        |  |
| Arsenic <sup>U</sup>                                             |              | < 0.01                 | < 0.01          |                 | < 0.2                                            | 0.5                                                                                         | 2                               | 25     |  |
| Barium <sup>U</sup>                                              |              | 0.04                   | < 0.02          |                 | 0.1                                              | 20                                                                                          | 100                             | 300    |  |
| Cadmium <sup>U</sup>                                             |              | < 0.0005               | < 0.0005        |                 | < 0.02                                           | 0.04                                                                                        | 1                               | 5      |  |
| Chromium <sup>U</sup>                                            |              | < 0.005                | < 0.005         |                 | < 0.20                                           | 0.5                                                                                         | 10                              | 70     |  |
| Copper <sup>U</sup>                                              |              | < 0.01                 | < 0.01          |                 | < 0.5                                            | 2                                                                                           | 50                              | 100    |  |
| Mercury <sup>U</sup>                                             |              | < 0.0005               | < 0.0005        |                 | < 0.005                                          | 0.01                                                                                        | 0.2                             | 2      |  |
| Molybdenum <sup>U</sup>                                          |              | 0.002                  | < 0.001         |                 | < 0.1                                            | 0.5                                                                                         | 10                              | 30     |  |
| Nickel <sup>U</sup>                                              |              | < 0.007                | < 0.007         |                 | < 0.2                                            | 0.4                                                                                         | 10                              | 40     |  |
| Lead <sup>U</sup>                                                |              | < 0.005                | < 0.005         |                 | < 0.2                                            | 0.5                                                                                         | 10                              | 50     |  |
| Antimony <sup>U</sup>                                            |              | < 0.005                | < 0.005         |                 | < 0.05                                           | 0.06                                                                                        | 0.7                             | 5      |  |
| Selenium <sup>U</sup>                                            |              | < 0.005                | < 0.005         |                 | < 0.05                                           | 0.1                                                                                         | 0.5                             | 7      |  |
| Zinc <sup>U</sup>                                                |              | 0.054                  | 0.007           |                 | < 0.2                                            | 4                                                                                           | 50                              | 200    |  |
| Chloride <sup>U</sup>                                            |              | 2                      | 2               |                 | 21                                               | 800                                                                                         | 15000                           | 25000  |  |
| Fluoride <sup>U</sup>                                            |              | < 0.5                  | < 0.5           |                 | < 1                                              | 10                                                                                          | 150                             | 500    |  |
| Sulphate <sup>U</sup>                                            |              | 3                      | 3               |                 | 29                                               | 1000                                                                                        | 20000                           | 50000  |  |
| TDS                                                              |              | 14                     | 12              |                 | 121                                              | 4000                                                                                        | 60000                           | 100000 |  |
| Phenol Index                                                     |              | < 0.01                 | < 0.01          |                 | < 0.5                                            | 1                                                                                           | -                               | -      |  |
| DOC                                                              |              | 12.7                   | 11.4            |                 | 115                                              | 500                                                                                         | 800                             | 1000   |  |
| <b>Leach Test Information</b>                                    |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
| Sample Mass (kg)                                                 |              | 0.21                   |                 |                 |                                                  |                                                                                             |                                 |        |  |
| Dry Matter (%)                                                   |              | 82.6                   |                 |                 |                                                  |                                                                                             |                                 |        |  |
| Moisture (%)                                                     |              | 21                     |                 |                 |                                                  |                                                                                             |                                 |        |  |
| <b>Stage 1</b>                                                   |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
| Volume Eluate L2 (litres)                                        |              | 0.31                   |                 |                 |                                                  |                                                                                             |                                 |        |  |
| Filtered Eluate VE1 (litres)                                     |              | 0.08                   |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |
|                                                                  |              |                        |                 |                 |                                                  |                                                                                             |                                 |        |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion  
 Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation  
 M Denotes MCERTS accredited test  
 U Denotes ISO17025 accredited test

| Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3                                                                                                                                                                                                                                                                                                                                                        |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|---------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------|-------|--------|
| <b>DETS Report No: 23-01185</b>                                                                                                                                                                                                                                                                                                                                                                                         |              | <b>Date Sampled</b>    | 26/01/23      |             | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <b>Landfill Waste Acceptance Criteria Limits</b> </div> <div style="text-align: center;"> <b>Inert Waste Landfill</b> </div> <div style="text-align: center;"> <b>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</b> </div> <div style="text-align: center;"> <b>Hazardous Waste Landfill</b> </div> </div> |                        |                                                                                             |       |        |
| <b>Earth Environmental &amp; Geotechnical Ltd</b>                                                                                                                                                                                                                                                                                                                                                                       |              | <b>Time Sampled</b>    | None Supplied |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Site Reference: Dobfield Road</b>                                                                                                                                                                                                                                                                                                                                                                                    |              | <b>TP / BH No</b>      | TP3           |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Project / Job Ref: A5182</b>                                                                                                                                                                                                                                                                                                                                                                                         |              | <b>Additional Refs</b> | None Supplied |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Order No: A5182/BG</b>                                                                                                                                                                                                                                                                                                                                                                                               |              | <b>Depth (m)</b>       | 0.80          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Reporting Date: 07/02/2023</b>                                                                                                                                                                                                                                                                                                                                                                                       |              | <b>DETS Sample No</b>  | 631060        |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Determinand</b>                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Unit</b>  | <b>MDL</b>             |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| TOC <sup>MU</sup>                                                                                                                                                                                                                                                                                                                                                                                                       | %            | < 0.1                  | 2.5           |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Loss on Ignition                                                                                                                                                                                                                                                                                                                                                                                                        | %            | < 0.01                 | 10.80         |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| BTEX <sup>MU</sup>                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg        | < 0.05                 | < 0.05        |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Sum of PCBs                                                                                                                                                                                                                                                                                                                                                                                                             | mg/kg        | < 0.1                  | < 0.1         |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Mineral Oil <sup>MU</sup>                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg        | < 10                   | < 10          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Total PAH <sup>MU</sup>                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg        | < 1.7                  | < 1.7         |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| pH <sup>MU</sup>                                                                                                                                                                                                                                                                                                                                                                                                        | pH Units     | N/a                    | 6.4           |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Acid Neutralisation Capacity                                                                                                                                                                                                                                                                                                                                                                                            | mol/kg (+/-) | < 1                    | < 1           |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Eluate Analysis</b>                                                                                                                                                                                                                                                                                                                                                                                                  |              |                        | <b>2:1</b>    | <b>8:1</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Cumulative 10:1</b> | <b>Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)</b> |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        | <b>mg/l</b>   | <b>mg/l</b> |                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>mg/kg</b>           |                                                                                             |       |        |
| Arsenic <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                    |              |                        | < 0.01        | < 0.01      |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.2                  | 0.5                                                                                         | 2     | 25     |
| Barium <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                     |              |                        | < 0.02        | < 0.02      |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.1                  | 20                                                                                          | 100   | 300    |
| Cadmium <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                    |              |                        | < 0.0005      | < 0.0005    |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.02                 | 0.04                                                                                        | 1     | 5      |
| Chromium <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | < 0.005       | < 0.005     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.20                 | 0.5                                                                                         | 10    | 70     |
| Copper <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                     |              |                        | < 0.01        | < 0.01      |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.5                  | 2                                                                                           | 50    | 100    |
| Mercury <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                    |              |                        | < 0.0005      | < 0.0005    |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.005                | 0.01                                                                                        | 0.2   | 2      |
| Molybdenum <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                 |              |                        | 0.002         | < 0.001     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.1                  | 0.5                                                                                         | 10    | 30     |
| Nickel <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                     |              |                        | < 0.007       | < 0.007     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.2                  | 0.4                                                                                         | 10    | 40     |
| Lead <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                       |              |                        | < 0.005       | < 0.005     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.2                  | 0.5                                                                                         | 10    | 50     |
| Antimony <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | < 0.005       | < 0.005     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.05                 | 0.06                                                                                        | 0.7   | 5      |
| Selenium <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | < 0.005       | < 0.005     |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.05                 | 0.1                                                                                         | 0.5   | 7      |
| Zinc <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                       |              |                        | 0.036         | 0.020       |                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2                    | 4                                                                                           | 50    | 200    |
| Chloride <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | 3             | 2           |                                                                                                                                                                                                                                                                                                                                                                                                                          | 25                     | 800                                                                                         | 15000 | 25000  |
| Fluoride <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | < 0.5         | < 0.5       |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 1                    | 10                                                                                          | 150   | 500    |
| Sulphate <sup>U</sup>                                                                                                                                                                                                                                                                                                                                                                                                   |              |                        | 3             | 2           |                                                                                                                                                                                                                                                                                                                                                                                                                          | 25                     | 1000                                                                                        | 20000 | 50000  |
| TDS                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                        | 15            | 14          |                                                                                                                                                                                                                                                                                                                                                                                                                          | 140                    | 4000                                                                                        | 60000 | 100000 |
| Phenol Index                                                                                                                                                                                                                                                                                                                                                                                                            |              |                        | < 0.01        | < 0.01      |                                                                                                                                                                                                                                                                                                                                                                                                                          | < 0.5                  | 1                                                                                           | -     | -      |
| DOC                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                        | 15.2          | 13.4        |                                                                                                                                                                                                                                                                                                                                                                                                                          | 135                    | 500                                                                                         | 800   | 1000   |
| <b>Leach Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                           |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Sample Mass (kg)                                                                                                                                                                                                                                                                                                                                                                                                        |              |                        | 0.20          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Dry Matter (%)                                                                                                                                                                                                                                                                                                                                                                                                          |              |                        | 86.8          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Moisture (%)                                                                                                                                                                                                                                                                                                                                                                                                            |              |                        | 15.4          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| <b>Stage 1</b>                                                                                                                                                                                                                                                                                                                                                                                                          |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Volume Eluate L2 (litres)                                                                                                                                                                                                                                                                                                                                                                                               |              |                        | 0.32          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                                                                                                                                                                                                                            |              |                        | 0.09          |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |
| Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion<br>Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation<br>M Denotes MCERTS accredited test<br>U Denotes ISO17025 accredited test |              |                        |               |             |                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                             |       |        |



**DETS Ltd**  
 L, Rose Lane Industrial Estate  
 Rose Lane  
 Lenham Heath  
 Maidstone  
 Kent ME17 2JN  
 Tel : 01622 850410



| Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3                                                                                                                                                |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|----------|---------|-------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|-----------------|
| DETS Report No: 23-01185                                                                                                                                                                                        |              | Date Sampled    | 26/01/23      |          |         | Landfill Waste Acceptance Criteria Limits |                                                                                      |                          |                 |
| Earth Environmental & Geotechnical Ltd                                                                                                                                                                          |              | Time Sampled    | None Supplied |          |         |                                           |                                                                                      |                          |                 |
| Site Reference: Dobfield Road                                                                                                                                                                                   |              | TP / BH No      | TP6           |          |         |                                           |                                                                                      |                          |                 |
| Project / Job Ref: A5182                                                                                                                                                                                        |              | Additional Refs | None Supplied |          |         |                                           |                                                                                      |                          |                 |
| Order No: A5182/BG                                                                                                                                                                                              |              | Depth (m)       | 0.70          |          |         |                                           |                                                                                      |                          |                 |
| Reporting Date: 07/02/2023                                                                                                                                                                                      |              | DETS Sample No  | 631063        |          |         |                                           |                                                                                      |                          |                 |
| Determinand                                                                                                                                                                                                     | Unit         | MDL             |               |          |         | Inert Waste Landfill                      | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill                        | Hazardous Waste Landfill |                 |
| TOC <sup>MU</sup>                                                                                                                                                                                               | %            | < 0.1           | 3.2           |          |         |                                           | 3%                                                                                   | 5%                       | 6%              |
| Loss on Ignition                                                                                                                                                                                                | %            | < 0.01          | 10.50         |          |         |                                           | --                                                                                   | --                       | 10%             |
| BTEX <sup>MU</sup>                                                                                                                                                                                              | mg/kg        | < 0.05          | < 0.05        |          |         |                                           | 6                                                                                    | --                       | --              |
| Sum of PCBs                                                                                                                                                                                                     | mg/kg        | < 0.1           | < 0.1         |          |         |                                           | 1                                                                                    | --                       | --              |
| Mineral Oil <sup>MU</sup>                                                                                                                                                                                       | mg/kg        | < 10            | < 10          |          |         |                                           | 500                                                                                  | --                       | --              |
| Total PAH <sup>MU</sup>                                                                                                                                                                                         | mg/kg        | < 1.7           | < 1.7         |          |         |                                           | 100                                                                                  | --                       | --              |
| pH <sup>MU</sup>                                                                                                                                                                                                | pH Units     | N/a             | 5.2           |          |         |                                           | --                                                                                   | >6                       | --              |
| Acid Neutralisation Capacity                                                                                                                                                                                    | mol/kg (+/-) | < 1             | < 1           |          |         |                                           | --                                                                                   | To be evaluated          | To be evaluated |
| Eluate Analysis                                                                                                                                                                                                 |              |                 | 2:1 mg/l      | 8:1 mg/l |         | Cumulative 10:1 mg/kg                     | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                          |                 |
| Arsenic <sup>U</sup>                                                                                                                                                                                            |              | < 0.01          | < 0.01        |          | < 0.2   | 0.5                                       | 2                                                                                    | 25                       |                 |
| Barium <sup>U</sup>                                                                                                                                                                                             |              | < 0.02          | < 0.02        |          | 0.1     | 20                                        | 100                                                                                  | 300                      |                 |
| Cadmium <sup>U</sup>                                                                                                                                                                                            |              | < 0.0005        | < 0.0005      |          | < 0.02  | 0.04                                      | 1                                                                                    | 5                        |                 |
| Chromium <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.20  | 0.5                                       | 10                                                                                   | 70                       |                 |
| Copper <sup>U</sup>                                                                                                                                                                                             |              | < 0.01          | < 0.01        |          | < 0.5   | 2                                         | 50                                                                                   | 100                      |                 |
| Mercury <sup>U</sup>                                                                                                                                                                                            |              | < 0.0005        | < 0.0005      |          | < 0.005 | 0.01                                      | 0.2                                                                                  | 2                        |                 |
| Molybdenum <sup>U</sup>                                                                                                                                                                                         |              | 0.002           | < 0.001       |          | < 0.1   | 0.5                                       | 10                                                                                   | 30                       |                 |
| Nickel <sup>U</sup>                                                                                                                                                                                             |              | < 0.007         | < 0.007       |          | < 0.2   | 0.4                                       | 10                                                                                   | 40                       |                 |
| Lead <sup>U</sup>                                                                                                                                                                                               |              | 0.010           | < 0.005       |          | < 0.2   | 0.5                                       | 10                                                                                   | 50                       |                 |
| Antimony <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.05  | 0.06                                      | 0.7                                                                                  | 5                        |                 |
| Selenium <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.05  | 0.1                                       | 0.5                                                                                  | 7                        |                 |
| Zinc <sup>U</sup>                                                                                                                                                                                               |              | 0.027           | 0.010         |          | < 0.2   | 4                                         | 50                                                                                   | 200                      |                 |
| Chloride <sup>U</sup>                                                                                                                                                                                           |              | 2               | 2             |          | 19      | 800                                       | 15000                                                                                | 25000                    |                 |
| Fluoride <sup>U</sup>                                                                                                                                                                                           |              | < 0.5           | < 0.5         |          | < 1     | 10                                        | 150                                                                                  | 500                      |                 |
| Sulphate <sup>U</sup>                                                                                                                                                                                           |              | 4               | 3             |          | 28      | 1000                                      | 20000                                                                                | 50000                    |                 |
| TDS                                                                                                                                                                                                             |              | 23              | 15            |          | 153     | 4000                                      | 60000                                                                                | 100000                   |                 |
| Phenol Index                                                                                                                                                                                                    |              | < 0.01          | < 0.01        |          | < 0.5   | 1                                         | -                                                                                    | -                        |                 |
| DOC                                                                                                                                                                                                             |              | 15.4            | 18.4          |          | 183     | 500                                       | 800                                                                                  | 1000                     |                 |
| Leach Test Information                                                                                                                                                                                          |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Sample Mass (kg)                                                                                                                                                                                                |              | 0.21            |               |          |         |                                           |                                                                                      |                          |                 |
| Dry Matter (%)                                                                                                                                                                                                  |              | 84.4            |               |          |         |                                           |                                                                                      |                          |                 |
| Moisture (%)                                                                                                                                                                                                    |              | 18.6            |               |          |         |                                           |                                                                                      |                          |                 |
| Stage 1                                                                                                                                                                                                         |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Volume Eluate L2 (litres)                                                                                                                                                                                       |              | 0.32            |               |          |         |                                           |                                                                                      |                          |                 |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                    |              | 0.07            |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation                                                                                      |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| M Denotes MCERTS accredited test                                                                                                                                                                                |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| U Denotes ISO17025 accredited test                                                                                                                                                                              |              |                 |               |          |         |                                           |                                                                                      |                          |                 |



**DETS Ltd**  
 L, Rose Lane Industrial Estate  
 Rose Lane  
 Lenham Heath  
 Maidstone  
 Kent ME17 2JN  
 Tel : 01622 850410



| Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3                                                                                                                                                |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|---------------|----------|---------|-------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|-----------------|
| DETS Report No: 23-01185                                                                                                                                                                                        |              | Date Sampled    | 26/01/23      |          |         | Landfill Waste Acceptance Criteria Limits |                                                                                      |                          |                 |
| Earth Environmental & Geotechnical Ltd                                                                                                                                                                          |              | Time Sampled    | None Supplied |          |         |                                           |                                                                                      |                          |                 |
| Site Reference: Dobfield Road                                                                                                                                                                                   |              | TP / BH No      | TP9           |          |         |                                           |                                                                                      |                          |                 |
| Project / Job Ref: A5182                                                                                                                                                                                        |              | Additional Refs | None Supplied |          |         |                                           |                                                                                      |                          |                 |
| Order No: A5182/BG                                                                                                                                                                                              |              | Depth (m)       | 0.20          |          |         |                                           |                                                                                      |                          |                 |
| Reporting Date: 07/02/2023                                                                                                                                                                                      |              | DETS Sample No  | 631066        |          |         |                                           |                                                                                      |                          |                 |
| Determinand                                                                                                                                                                                                     | Unit         | MDL             |               |          |         | Inert Waste Landfill                      | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill                        | Hazardous Waste Landfill |                 |
| TOC <sup>MU</sup>                                                                                                                                                                                               | %            | < 0.1           | 4.1           |          |         |                                           | 3%                                                                                   | 5%                       | 6%              |
| Loss on Ignition                                                                                                                                                                                                | %            | < 0.01          | 10.10         |          |         |                                           | --                                                                                   | --                       | 10%             |
| BTEX <sup>MU</sup>                                                                                                                                                                                              | mg/kg        | < 0.05          | < 0.05        |          |         |                                           | 6                                                                                    | --                       | --              |
| Sum of PCBs                                                                                                                                                                                                     | mg/kg        | < 0.1           | < 0.1         |          |         |                                           | 1                                                                                    | --                       | --              |
| Mineral Oil <sup>MU</sup>                                                                                                                                                                                       | mg/kg        | < 10            | < 10          |          |         |                                           | 500                                                                                  | --                       | --              |
| Total PAH <sup>MU</sup>                                                                                                                                                                                         | mg/kg        | < 1.7           | < 1.7         |          |         |                                           | 100                                                                                  | --                       | --              |
| pH <sup>MU</sup>                                                                                                                                                                                                | pH Units     | N/a             | 5.6           |          |         |                                           | --                                                                                   | >6                       | --              |
| Acid Neutralisation Capacity                                                                                                                                                                                    | mol/kg (+/-) | < 1             | < 1           |          |         |                                           | --                                                                                   | To be evaluated          | To be evaluated |
| Eluate Analysis                                                                                                                                                                                                 |              |                 | 2:1 mg/l      | 8:1 mg/l |         | Cumulative 10:1 mg/kg                     | Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                          |                 |
| Arsenic <sup>U</sup>                                                                                                                                                                                            |              | < 0.01          | < 0.01        |          | < 0.2   | 0.5                                       | 2                                                                                    | 25                       |                 |
| Barium <sup>U</sup>                                                                                                                                                                                             |              | < 0.02          | < 0.02        |          | < 0.1   | 20                                        | 100                                                                                  | 300                      |                 |
| Cadmium <sup>U</sup>                                                                                                                                                                                            |              | < 0.0005        | < 0.0005      |          | < 0.02  | 0.04                                      | 1                                                                                    | 5                        |                 |
| Chromium <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.20  | 0.5                                       | 10                                                                                   | 70                       |                 |
| Copper <sup>U</sup>                                                                                                                                                                                             |              | < 0.01          | < 0.01        |          | < 0.5   | 2                                         | 50                                                                                   | 100                      |                 |
| Mercury <sup>U</sup>                                                                                                                                                                                            |              | < 0.0005        | < 0.0005      |          | < 0.005 | 0.01                                      | 0.2                                                                                  | 2                        |                 |
| Molybdenum <sup>U</sup>                                                                                                                                                                                         |              | 0.001           | < 0.001       |          | < 0.1   | 0.5                                       | 10                                                                                   | 30                       |                 |
| Nickel <sup>U</sup>                                                                                                                                                                                             |              | < 0.007         | < 0.007       |          | < 0.2   | 0.4                                       | 10                                                                                   | 40                       |                 |
| Lead <sup>U</sup>                                                                                                                                                                                               |              | < 0.005         | < 0.005       |          | < 0.2   | 0.5                                       | 10                                                                                   | 50                       |                 |
| Antimony <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.05  | 0.06                                      | 0.7                                                                                  | 5                        |                 |
| Selenium <sup>U</sup>                                                                                                                                                                                           |              | < 0.005         | < 0.005       |          | < 0.05  | 0.1                                       | 0.5                                                                                  | 7                        |                 |
| Zinc <sup>U</sup>                                                                                                                                                                                               |              | 0.033           | 0.012         |          | < 0.2   | 4                                         | 50                                                                                   | 200                      |                 |
| Chloride <sup>U</sup>                                                                                                                                                                                           |              | 3               | 2             |          | 23      | 800                                       | 15000                                                                                | 25000                    |                 |
| Fluoride <sup>U</sup>                                                                                                                                                                                           |              | < 0.5           | < 0.5         |          | < 1     | 10                                        | 150                                                                                  | 500                      |                 |
| Sulphate <sup>U</sup>                                                                                                                                                                                           |              | 3               | 2             |          | 23      | 1000                                      | 20000                                                                                | 50000                    |                 |
| TDS                                                                                                                                                                                                             |              | 12              | 14            |          | 139     | 4000                                      | 60000                                                                                | 100000                   |                 |
| Phenol Index                                                                                                                                                                                                    |              | < 0.01          | < 0.01        |          | < 0.5   | 1                                         | -                                                                                    | -                        |                 |
| DOC                                                                                                                                                                                                             |              | 15.2            | 12.5          |          | 126     | 500                                       | 800                                                                                  | 1000                     |                 |
| Leach Test Information                                                                                                                                                                                          |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Sample Mass (kg)                                                                                                                                                                                                |              | 0.21            |               |          |         |                                           |                                                                                      |                          |                 |
| Dry Matter (%)                                                                                                                                                                                                  |              | 82.9            |               |          |         |                                           |                                                                                      |                          |                 |
| Moisture (%)                                                                                                                                                                                                    |              | 20.8            |               |          |         |                                           |                                                                                      |                          |                 |
| Stage 1                                                                                                                                                                                                         |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Volume Eluate L2 (litres)                                                                                                                                                                                       |              | 0.31            |               |          |         |                                           |                                                                                      |                          |                 |
| Filtered Eluate VE1 (litres)                                                                                                                                                                                    |              | 0.09            |               |          |         |                                           |                                                                                      |                          |                 |
|                                                                                                                                                                                                                 |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation                                                                                      |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| M Denotes MCERTS accredited test                                                                                                                                                                                |              |                 |               |          |         |                                           |                                                                                      |                          |                 |
| U Denotes ISO17025 accredited test                                                                                                                                                                              |              |                 |               |          |         |                                           |                                                                                      |                          |                 |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Soil Analysis Certificate - Sample Descriptions |  |
|-------------------------------------------------|--|
| DETS Report No: 23-01185                        |  |
| Earth Environmental & Geotechnical Ltd          |  |
| Site Reference: Dobfield Road                   |  |
| Project / Job Ref: A5182                        |  |
| Order No: A5182/BG                              |  |
| Reporting Date: 07/02/2023                      |  |

| DETS Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description                    |
|----------------|------------|-----------------|-----------|----------------------|----------------------------------------------|
| 631058         | TP1        | None Supplied   | 0.20      | 17.4                 | Black sandy clay with stones                 |
| 631059         | TP2        | None Supplied   | 0.60      | 16.7                 | Black sandy clay with stones                 |
| 631060         | TP3        | None Supplied   | 0.80      | 13.2                 | Brown sandy clay with stones and vegetation  |
| 631061         | TP8        | None Supplied   | 0.50      | 11                   | Brown sandy clay with stones                 |
| 631062         | TP7        | None Supplied   | 0.30      | 9                    | Black gravelly sand with stones and concrete |
| 631063         | TP6        | None Supplied   | 0.70      | 15.6                 | Black gravelly sand with stones and concrete |
| 631064         | TP4        | None Supplied   | 0.50      | 18.2                 | Black loamy sand with vegetation             |
| 631065         | TP5        | None Supplied   | 0.40      | 15.5                 | Brown loamy sand with stones and vegetation  |
| 631066         | TP9        | None Supplied   | 0.20      | 17.1                 | Brown loamy sand with vegetation             |
| 631067         | WS7        | None Supplied   | 0.50      | 8.9                  | Black gravelly sand with stones and concrete |
| 631068         | WS8        | None Supplied   | 0.60      | 11.7                 | Brown sandy clay with stones and concrete    |
| 631069         | WS4        | None Supplied   | 0.60      | 11.4                 | Brown sandy clay with stones                 |
| 631070         | WS10       | None Supplied   | 0.55      | 12.3                 | Brown sandy clay with stones                 |
| 631071         | WS9        | None Supplied   | 0.25      | 13.2                 | Brown sandy clay with stones                 |
| 631072         | WS1        | None Supplied   | 0.70      | 16.6                 | Brown sandy clay with stones                 |

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample <sup>1/5</sup>

Unsuitable Sample <sup>4/5</sup>



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



# **Soil Analysis Certificate - Methodology & Miscellaneous Information**

**DETS Report No: 23-01185**

**Earth Environmental & Geotechnical Ltd**

**Site Reference: Dobfield Road**

**Project / Job Ref: A5182**

**Order No: A5182/BG**

**Reporting Date: 07/02/2023**

| Matrix | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                             | Method No |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Soil   | D           | Boron - Water Soluble                                                                                                                           | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES                                                            | E012      |
| Soil   | AR          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                             | E001      |
| Soil   | D           | Cations                                                                                                                                         | Determination of cations in soil by aqua-regia digestion followed by ICP-OES                                                                         | E002      |
| Soil   | D           | Chloride - Water Soluble (2:1)                                                                                                                  | Determination of chloride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | AR          | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016      |
| Soil   | AR          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                             | E015      |
| Soil   | AR          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                                | E015      |
| Soil   | AR          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                               | E015      |
| Soil   | D           | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through extraction with cyclohexane                                                                                       | E011      |
| Soil   | AR          | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of hexane/acetone extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement                             | E022      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of water followed by electrometric measurement                                                  | E023      |
| Soil   | D           | Elemental Sulphur                                                                                                                               | Determination of elemental sulphur by solvent extraction followed by GC-MS                                                                           | E020      |
| Soil   | AR          | EPH (C10 - C40)                                                                                                                                 | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH Product ID                                                                                                                                  | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                                        | E004      |
| Soil   | D           | Fluoride - Water Soluble                                                                                                                        | Determination of Fluoride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Fraction Organic Carbon (FOC)                                                                                                                   | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | Organic Matter (SOM)                                                                                                                            | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | TOC (Total Organic Carbon)                                                                                                                      | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | AR          | Exchangeable Ammonium                                                                                                                           | Determination of ammonium by discrete analyser.                                                                                                      | E029      |
| Soil   | D           | FOC (Fraction Organic Carbon)                                                                                                                   | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate                     | E010      |
| Soil   | D           | Loss on Ignition @ 450oC                                                                                                                        | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                                       | E019      |
| Soil   | D           | Magnesium - Water Soluble                                                                                                                       | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                                | E025      |
| Soil   | D           | Metals                                                                                                                                          | Determination of metals by aqua-regia digestion followed by ICP-OES                                                                                  | E002      |
| Soil   | AR          | Mineral Oil (C10 - C40)                                                                                                                         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | Moisture Content                                                                                                                                | Moisture content; determined gravimetrically                                                                                                         | E003      |
| Soil   | D           | Nitrate - Water Soluble (2:1)                                                                                                                   | Determination of nitrate by extraction with water & analysed by ion chromatography                                                                   | E009      |
| Soil   | D           | Organic Matter                                                                                                                                  | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards                | E005      |
| Soil   | AR          | PCB - 7 Congeners                                                                                                                               | Determination of PCB by extraction with acetone and hexane followed by GC-MS                                                                         | E008      |
| Soil   | D           | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through extraction with petroleum ether                                                                                   | E011      |
| Soil   | AR          | pH                                                                                                                                              | Determination of pH by addition of water followed by electrometric measurement                                                                       | E007      |
| Soil   | AR          | Phenols - Total (monohydric)                                                                                                                    | Determination of phenols by distillation followed by colorimetry                                                                                     | E021      |
| Soil   | D           | Phosphate - Water Soluble (2:1)                                                                                                                 | Determination of phosphate by extraction with water & analysed by ion chromatography                                                                 | E009      |
| Soil   | D           | Sulphate (as SO4) - Total                                                                                                                       | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES                                                                       | E013      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of sulphate by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of water soluble sulphate by extraction with water followed by ICP-OES                                                                 | E014      |
| Soil   | AR          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                                    | E018      |
| Soil   | D           | Sulphur - Total                                                                                                                                 | Determination of total sulphur by extraction with aqua-regia followed by ICP-OES                                                                     | E024      |
| Soil   | AR          | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS                                               | E006      |
| Soil   | AR          | Thiocyanate (as SCN)                                                                                                                            | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry  | E017      |
| Soil   | D           | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through extraction with toluene                                                                                           | E011      |
| Soil   | D           | Total Organic Carbon (TOC)                                                                                                                      | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                                       | E001      |
| Soil   | AR          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                            | E001      |

**D Dried**  
**AR As Received**



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



# Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-01185

Earth Environmental & Geotechnical Ltd

Site Reference: Dobfield Road

Project / Job Ref: A5182

Order No: A5182/BG

Reporting Date: 07/02/2023

| Matrix   | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                    | Method No |
|----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Water    | UF          | Alkalinity                                                                                                                                      | Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point                                 | E103      |
| Water    | F           | Ammoniacal Nitrogen                                                                                                                             | Determination of ammoniacal nitrogen by discrete analyser.                                                                                  | E126      |
| Water    | UF          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                    | E101      |
| Water    | F           | Cations                                                                                                                                         | Determination of cations by filtration followed by ICP-MS                                                                                   | E102      |
| Water    | UF          | Chemical Oxygen Demand (COD)                                                                                                                    | Determination using a COD reactor followed by colorimetry                                                                                   | E112      |
| Water    | F           | Chloride                                                                                                                                        | Determination of chloride by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | F           | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by                                        | E116      |
| Water    | UF          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                    | E115      |
| Water    | UF          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                       | E115      |
| Water    | UF          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                      | E115      |
| Water    | UF          | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through liquid:liquid extraction with cyclohexane                                                                | E111      |
| Water    | F           | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of liquid:liquid extraction with hexane followed by GC-FID                                                                    | E104      |
| Water    | F           | Dissolved Organic Content (DOC)                                                                                                                 | Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete                                       | E110      |
| Water    | UF          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by electrometric measurement                                                                       | E123      |
| Water    | F           | EPH (C10 - C40)                                                                                                                                 | Determination of liquid:liquid extraction with hexane followed by GC-FID                                                                    | E104      |
| Water    | F           | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                         | E104      |
| Water    | F           | Fluoride                                                                                                                                        | Determination of Fluoride by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | F           | Hardness                                                                                                                                        | Determination of Ca and Mg by ICP-MS followed by calculation                                                                                | E102      |
| Leachate | F           | Leachate Preparation - NRA                                                                                                                      | Based on National Rivers Authority leaching test 1994                                                                                       | E301      |
| Leachate | F           | Leachate Preparation - WAC                                                                                                                      | Based on BS EN 12457 Pt1, 2, 3                                                                                                              | E302      |
| Water    | F           | Metals                                                                                                                                          | Determination of metals by filtration followed by ICP-MS                                                                                    | E102      |
| Water    | F           | Mineral Oil (C10 - C40)                                                                                                                         | Determination of liquid:liquid extraction with hexane followed by GI-FID                                                                    | E104      |
| Water    | F           | Nitrate                                                                                                                                         | Determination of nitrate by filtration & analysed by ion chromatography                                                                     | E109      |
| Water    | UF          | Monohydric Phenol                                                                                                                               | Determination of phenols by distillation followed by colorimetry                                                                            | E121      |
| Water    | F           | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS                      | E105      |
| Water    | F           | PCB - 7 Congeners                                                                                                                               | Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane                                        | E108      |
| Water    | UF          | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through liquid:liquid extraction with petroleum ether                                                            | E111      |
| Water    | UF          | pH                                                                                                                                              | Determination of pH by electrometric measurement                                                                                            | E107      |
| Water    | F           | Phosphate                                                                                                                                       | Determination of phosphate by filtration & analysed by ion chromatography                                                                   | E109      |
| Water    | UF          | Redox Potential                                                                                                                                 | Determination of redox potential by electrometric measurement                                                                               | E113      |
| Water    | F           | Sulphate (as SO4)                                                                                                                               | Determination of sulphate by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | UF          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                           | E118      |
| Water    | F           | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS    | E106      |
| Water    | UF          | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through liquid:liquid extraction with toluene                                                                    | E111      |
| Water    | UF          | Total Organic Carbon (TOC)                                                                                                                      | Low heat with persulphate addition followed by IR detection                                                                                 | E110      |
| Water    | F           | TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)          | Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS | E104      |
| Water    | F           | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS | E104      |
| Water    | UF          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                              | E101      |
| Water    | UF          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                   | E101      |

Key

F Filtered  
UF Unfiltered



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



|                                                   |
|---------------------------------------------------|
| <b>List of HWOL Acronyms and Operators</b>        |
| <b>DETS Report No: 23-01185</b>                   |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> |
| <b>Site Reference: Dobfield Road</b>              |
| <b>Project / Job Ref: A5182</b>                   |
| <b>Order No: A5182/BG</b>                         |
| <b>Reporting Date: 07/02/2023</b>                 |

| Acronym | Description                                                         |
|---------|---------------------------------------------------------------------|
| HS      | Headspace analysis                                                  |
| EH      | Extractable Hydrocarbons - i.e. everything extracted by the solvent |
| CU      | Clean-up - e.g. by florisil, silica gel                             |
| 1D      | GC - Single coil gas chromatography                                 |
| 2D      | GC-GC - Double coil gas chromatography                              |
| Total   | Aliphatics & Aromatics                                              |
| AL      | Aliphatics only                                                     |
| AR      | Aromatics only                                                      |
| #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 eg. EH+HS_Total or EH_CU+HS_Total   |

|                                                       |
|-------------------------------------------------------|
| Det - Acronym                                         |
| Benzene - HS_1D_MS                                    |
| EPH (C10 - C40) - EH_1D_Total                         |
| Ethylbenzene - HS_1D_MS                               |
| MTBE - HS_1D_MS                                       |
| Mineral Oil (C10 - C40) (BS EN 12457-3) - EH_CU_1D_AL |
| TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL          |
| TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL          |
| TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL          |
| TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL          |
| TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL            |
| TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL            |
| TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL           |
| TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL   |
| TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR           |
| TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR           |
| TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR           |
| TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR           |
| TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR   |
| TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR             |
| TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR             |
| TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR            |
| TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total   |
| Toluene - HS_1D_MS                                    |
| Total BTEX (BS EN 12457-3) - HS_1D_MS_Total           |
| m & p-xylene - HS_1D_MS                               |
| o-Xylene - HS_1D_MS                                   |

| Parameter                    | Matrix Type | Suite Reference | Expanded Uncertainty Measurement | Unit  |
|------------------------------|-------------|-----------------|----------------------------------|-------|
| TOC                          | Soil        | BS EN 12457     | 10.4                             | %     |
| Loss on Ignition             | Soil        | BS EN 12457     | 16.9                             | %     |
| BTEX                         | Soil        | BS EN 12457     | 14.0                             | %     |
| Sum of PCBs                  | Soil        | BS EN 12457     | 21.1                             | %     |
| Mineral Oil                  | Soil        | BS EN 12457     | 9.0                              | %     |
| Total PAH                    | Soil        | BS EN 12457     | 17.9                             | %     |
| pH                           | Soil        | BS EN 12457     | 0.282                            | Units |
| Acid Neutralisation Capacity | Soil        | BS EN 12457     | 18.0                             | %     |
| Arsenic                      | Leachate    | BS EN 12457     | 19.5                             | %     |
| Barium                       | Leachate    | BS EN 12457     | 12.2                             | %     |
| Cadmium                      | Leachate    | BS EN 12457     | 17.2                             | %     |
| Chromium                     | Leachate    | BS EN 12457     | 20.7                             | %     |
| Copper                       | Leachate    | BS EN 12457     | 14.1                             | %     |
| Mercury                      | Leachate    | BS EN 12457     | 16.7                             | %     |
| Molybdenum                   | Leachate    | BS EN 12457     | 13.3                             | %     |
| Nickel                       | Leachate    | BS EN 12457     | 14.0                             | %     |
| Lead                         | Leachate    | BS EN 12457     | 12.1                             | %     |
| Antimony                     | Leachate    | BS EN 12457     | 16.1                             | %     |
| Selenium                     | Leachate    | BS EN 12457     | 15.5                             | %     |
| Zinc                         | Leachate    | BS EN 12457     | 14.0                             | %     |
| Chloride                     | Leachate    | BS EN 12457     | 15.7                             | %     |
| Fluoride                     | Leachate    | BS EN 12457     | 19.1                             | %     |
| Sulphate                     | Leachate    | BS EN 12457     | 27.6                             | %     |
| TDS                          | Leachate    | BS EN 12457     | 10.0                             | %     |
| Phenol Index                 | Leachate    | BS EN 12457     | 12.9                             | %     |
| DOC                          | Leachate    | BS EN 12457     | 20.4                             | %     |
| Clay Content                 | Soil        | BS 3882: 2015   | 15.0                             | %     |
| Silt Content                 | Soil        | BS 3882: 2015   | 14.0                             | %     |
| Sand Content                 | Soil        | BS 3882: 2015   | 13.0                             | %     |
| Loss on Ignition             | Soil        | BS 3882: 2015   | 16.9                             | %     |
| pH                           | Soil        | BS 3882: 2015   | 0.282                            | Units |
| Carbonate                    | Soil        | BS 3882: 2015   | 12.0                             | %     |
| Total Nitrogen               | Soil        | BS 3882: 2015   | 12.0                             | %     |
| Phosphorus (Extractable)     | Soil        | BS 3882: 2015   | 24.0                             | %     |
| Potassium (Extractable)      | Soil        | BS 3882: 2015   | 20.0                             | %     |
| Magnesium (Extractable)      | Soil        | BS 3882: 2015   | 26.0                             | %     |
| Zinc                         | Soil        | BS 3882: 2015   | 19.8                             | %     |
| Copper                       | Soil        | BS 3882: 2015   | 23.2                             | %     |
| Nickel                       | Soil        | BS 3882: 2015   | 32.6                             | %     |
| Available Sodium             | Soil        | BS 3882: 2015   | 23.0                             | %     |
| Available Calcium            | Soil        | BS 3882: 2015   | 23.0                             | %     |
| Electrical Conductivity      | Soil        | BS 3882: 2015   | 10.0                             | %     |



Daniel Shanks  
Earth Environmental & Geotechnical Ltd  
Houldsworth Mill Business Centre  
Houldsworth Street  
Reddish  
Stockport  
Cheshire  
SK5 6DA

**Derwentside Environmental Testing Services Ltd**  
Unit 1  
Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Kent  
ME17 2JN  
t: 01622 850410

## **DETS Report No: 23-01445**

**Site Reference:** Dobfield Road, Rochdale

**Project / Job Ref:** A5182

**Order No:** A5182/DS/02

**Sample Receipt Date:** 03/02/2023

**Sample Scheduled Date:** 03/02/2023

**Report Issue Number:** 1

**Reporting Date:** 10/02/2023

**Authorised by:**

Dave Ashworth  
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Water Analysis Certificate                        |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01445</b>                   | <b>Date Sampled</b>    | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road, Rochdale</b>    | <b>TP / BH No</b>      | WS1           | WS2           | WS6           | WS7           | WS9           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/DS/02</b>                      | <b>Depth (m)</b>       | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Reporting Date: 10/02/2023</b>                 | <b>DETS Sample No</b>  | 632143        | 632144        | 632145        | 632146        | 632147        |

| Determinand                   | Unit     | RL     | Accreditation |        |        |        |        |        |
|-------------------------------|----------|--------|---------------|--------|--------|--------|--------|--------|
| pH                            | pH Units | N/a    | ISO17025      | 6.6    | 6.3    | 6.7    | 6.4    | 6.8    |
| Total Cyanide                 | ug/l     | < 5    | NONE          | < 5    | < 5    | < 5    | < 5    | < 5    |
| Complex Cyanide               | ug/l     | < 5    | NONE          | < 5    | < 5    | < 5    | < 5    | < 5    |
| Free Cyanide                  | ug/l     | < 5    | NONE          | < 5    | < 5    | < 5    | < 5    | < 5    |
| Sulphate as SO <sub>4</sub>   | mg/l     | < 1    | ISO17025      | 11     | 12     | 7      | 16     | 6      |
| Sulphide                      | mg/l     | < 0.1  | NONE          | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Total Organic Carbon (TOC)    | mg/l     | < 0.1  | NONE          | 15.3   | 9.6    | 13.5   | 15.2   | 13.2   |
| Arsenic (dissolved)           | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Barium (dissolved)            | ug/l     | < 5    | ISO17025      | 59     | 20     | 23     | 27     | 38     |
| Beryllium (dissolved)         | ug/l     | < 3    | ISO17025      | < 3    | < 3    | < 3    | < 3    | < 3    |
| Boron (dissolved)             | ug/l     | < 5    | ISO17025      | 45     | 19     | 27     | 24     | 21     |
| Cadmium (dissolved)           | ug/l     | < 0.4  | ISO17025      | < 0.4  | < 0.4  | < 0.4  | < 0.4  | < 0.4  |
| Chromium (dissolved)          | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Chromium (hexavalent)         | ug/l     | < 20   | NONE          | < 20   | < 20   | < 20   | < 20   | < 20   |
| Copper (dissolved)            | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Lead (dissolved)              | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Mercury (dissolved)           | ug/l     | < 0.05 | ISO17025      | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Nickel (dissolved)            | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Selenium (dissolved)          | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Vanadium (dissolved)          | ug/l     | < 5    | ISO17025      | < 5    | < 5    | < 5    | < 5    | < 5    |
| Zinc (dissolved)              | ug/l     | < 2    | ISO17025      | 13     | 8      | 16     | 4      | 3      |
| Total Phenols (monohydric)    | ug/l     | < 10   | NONE          | < 10   | < 10   | < 10   | < 10   | < 10   |
| EPH (C10 - C40) : EH 1D Total | ug/l     | < 10   | NONE          | 630    | 734    | 42     | < 10   | 613    |

Subcontracted analysis <sup>(5)</sup>  
Insufficient sample <sup>1/5</sup>  
Unsuitable Sample <sup>1/5</sup>



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**

| Water Analysis Certificate - Speciated PAH        |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01445</b>                   | <b>Date Sampled</b>    | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road, Rochdale</b>    | <b>TP / BH No</b>      | WS1           | WS2           | WS6           | WS7           | WS9           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/DS/02</b>                      | <b>Depth (m)</b>       | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Reporting Date: 10/02/2023</b>                 | <b>DETS Sample No</b>  | 632143        | 632144        | 632145        | 632146        | 632147        |

| Determinand            | Unit | RL     | Accreditation |         |         |         |         |         |
|------------------------|------|--------|---------------|---------|---------|---------|---------|---------|
| Naphthalene            | ug/l | < 0.01 | NONE          | 0.06    | 0.07    | < 0.01  | 0.10    | < 0.01  |
| Acenaphthylene         | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Acenaphthene           | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | 0.04    | < 0.01  |
| Fluorene               | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Phenanthrene           | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | 0.04    | < 0.01  |
| Anthracene             | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Fluoranthene           | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Pyrene                 | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Benzo(a)anthracene     | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Chrysene               | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Benzo(b)fluoranthene   | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Benzo(k)fluoranthene   | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Benzo(a)pyrene         | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Indeno(1,2,3-cd)pyrene | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Dibenz(a,h)anthracene  | ug/l | < 0.01 | NONE          | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Benzo(ghi)perylene     | ug/l | 0.008  | NONE          | < 0.008 | < 0.008 | < 0.008 | < 0.008 | < 0.008 |
| Total EPA-16 PAHs      | ug/l | < 0.16 | NONE          | < 0.16  | < 0.16  | < 0.16  | 0.18    | < 0.16  |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**

**Water Analysis Certificate - TPH CWG Banded**

|                                                   |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01445</b>                   | <b>Date Sampled</b>    | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road, Rochdale</b>    | <b>TP / BH No</b>      | WS1           | WS2           | WS6           | WS7           | WS9           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/DS/02</b>                      | <b>Depth (m)</b>       | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Reporting Date: 10/02/2023</b>                 | <b>DETS Sample No</b>  | 632143        | 632144        | 632145        | 632146        | 632147        |

| <b>Determinand</b>                               | <b>Unit</b> | <b>RL</b> | <b>Accreditation</b> |      |      |       |       |      |
|--------------------------------------------------|-------------|-----------|----------------------|------|------|-------|-------|------|
| Aliphatic >C5 - C6 :<br>HS_1D_MS_AL              | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aliphatic >C6 - C8 :<br>HS_1D_MS_AL              | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aliphatic >C8 - C10 :<br>EH_CU_1D_AL             | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aliphatic >C10 - C12 :<br>EH_CU_1D_AL            | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aliphatic >C12 - C16 :<br>EH_CU_1D_AL            | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | 51   |
| Aliphatic >C16 - C21 :<br>EH_CU_1D_AL            | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aliphatic >C21 - C34 :<br>EH_CU_1D_AL            | ug/l        | < 10      | NONE                 | 311  | 219  | < 10  | < 10  | 156  |
| Aliphatic (C5 - C34) :<br>HS_1D_MS+EH_CU_1D_AL   | ug/l        | < 70      | NONE                 | 311  | 219  | < 70  | < 70  | 207  |
| Aromatic >C5 - C7 :<br>HS_1D_MS_AR               | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic >C7 - C8 :<br>HS_1D_MS_AR               | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic >C8 - C10 :<br>EH_CU_1D_AR              | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic >C10 - C12 :<br>EH_CU_1D_AR             | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic >C12 - C16 :<br>EH_CU_1D_AR             | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | 20   |
| Aromatic >C16 - C21 :<br>EH_CU_1D_AR             | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic >C21 - C35 :<br>EH_CU_1D_AR             | ug/l        | < 10      | NONE                 | < 10 | < 10 | < 10  | < 10  | < 10 |
| Aromatic (C5 - C35) :<br>HS_1D_MS+EH_CU_1D_AR    | ug/l        | < 70      | NONE                 | < 70 | < 70 | < 70  | < 70  | < 70 |
| Total >C5 - C35 :<br>HS_1D_MS+EH_CU_1D_Tot<br>al | ug/l        | < 140     | NONE                 | 311  | 219  | < 140 | < 140 | 227  |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Water Analysis Certificate - BTEX / MTBE          |                        |               |               |               |               |               |
|---------------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>DETS Report No: 23-01445</b>                   | <b>Date Sampled</b>    | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      | 31/01/23      |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Site Reference: Dobfield Road, Rochdale</b>    | <b>TP / BH No</b>      | WS1           | WS2           | WS6           | WS7           | WS9           |
| <b>Project / Job Ref: A5182</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Order No: A5182/DS/02</b>                      | <b>Depth (m)</b>       | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| <b>Reporting Date: 10/02/2023</b>                 | <b>DETS Sample No</b>  | 632143        | 632144        | 632145        | 632146        | 632147        |

| Determinand             | Unit | RL   | Accreditation |      |      |      |      |      |
|-------------------------|------|------|---------------|------|------|------|------|------|
| Benzene : HS_1D_MS      | ug/l | < 1  | ISO17025      | < 1  | < 1  | < 1  | < 1  | < 1  |
| Toluene : HS_1D_MS      | ug/l | < 5  | ISO17025      | < 5  | < 5  | < 5  | < 5  | < 5  |
| Ethylbenzene : HS_1D_MS | ug/l | < 5  | ISO17025      | < 5  | < 5  | < 5  | < 5  | < 5  |
| p & m-xylene : HS_1D_MS | ug/l | < 10 | ISO17025      | < 10 | < 10 | < 10 | < 10 | < 10 |
| o-xylene : HS_1D_MS     | ug/l | < 5  | ISO17025      | < 5  | < 5  | < 5  | < 5  | < 5  |
| MTBE : HS_1D_MS         | ug/l | < 10 | ISO17025      | < 10 | < 10 | < 10 | < 10 | < 10 |



**DETS Ltd**  
**Unit 1, Rose Lane Industrial Estate**  
**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Water Analysis Certificate - Methodology & Miscellaneous Information |  |
|----------------------------------------------------------------------|--|
| DETS Report No: 23-01445                                             |  |
| Earth Environmental & Geotechnical Ltd                               |  |
| Site Reference: Dobfield Road, Rochdale                              |  |
| Project / Job Ref: A5182                                             |  |
| Order No: A5182/DS/02                                                |  |
| Reporting Date: 10/02/2023                                           |  |

| Matrix   | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                    | Method No |
|----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Water    | UF          | Alkalinity                                                                                                                                      | Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point                                 | E103      |
| Water    | F           | Ammoniacal Nitrogen                                                                                                                             | Determination of ammoniacal nitrogen by discrete analyser.                                                                                  | E126      |
| Water    | UF          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                    | E101      |
| Water    | F           | Cations                                                                                                                                         | Determination of cations by filtration followed by ICP-MS                                                                                   | E102      |
| Water    | UF          | Chemical Oxygen Demand (COD)                                                                                                                    | Determination using a COD reactor followed by colorimetry                                                                                   | E112      |
| Water    | F           | Chloride                                                                                                                                        | Determination of chloride by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | F           | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by                                        | E116      |
| Water    | UF          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                    | E115      |
| Water    | UF          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                       | E115      |
| Water    | UF          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                      | E115      |
| Water    | UF          | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through liquid:liquid extraction with cyclohexane                                                                | E111      |
| Water    | F           | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of liquid:liquid extraction with hexane followed by GC-FID                                                                    | E104      |
| Water    | F           | Dissolved Organic Content (DOC)                                                                                                                 | Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete                                       | E110      |
| Water    | UF          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by electrometric measurement                                                                       | E123      |
| Water    | F           | EPH (C10 - C40)                                                                                                                                 | Determination of liquid:liquid extraction with hexane followed by GC-FID                                                                    | E104      |
| Water    | F           | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                         | E104      |
| Water    | F           | Fluoride                                                                                                                                        | Determination of Fluoride by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | F           | Hardness                                                                                                                                        | Determination of Ca and Mg by ICP-MS followed by calculation                                                                                | E102      |
| Leachate | F           | Leachate Preparation - NRA                                                                                                                      | Based on National Rivers Authority leaching test 1994                                                                                       | E301      |
| Leachate | F           | Leachate Preparation - WAC                                                                                                                      | Based on BS EN 12457 Pt1, 2, 3                                                                                                              | E302      |
| Water    | F           | Metals                                                                                                                                          | Determination of metals by filtration followed by ICP-MS                                                                                    | E102      |
| Water    | F           | Mineral Oil (C10 - C40)                                                                                                                         | Determination of liquid:liquid extraction with hexane followed by GI-FID                                                                    | E104      |
| Water    | F           | Nitrate                                                                                                                                         | Determination of nitrate by filtration & analysed by ion chromatography                                                                     | E109      |
| Water    | UF          | Monohydric Phenol                                                                                                                               | Determination of phenols by distillation followed by colorimetry                                                                            | E121      |
| Water    | F           | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS                      | E105      |
| Water    | F           | PCB - 7 Congeners                                                                                                                               | Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane                                        | E108      |
| Water    | UF          | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through liquid:liquid extraction with petroleum ether                                                            | E111      |
| Water    | UF          | pH                                                                                                                                              | Determination of pH by electrometric measurement                                                                                            | E107      |
| Water    | F           | Phosphate                                                                                                                                       | Determination of phosphate by filtration & analysed by ion chromatography                                                                   | E109      |
| Water    | UF          | Redox Potential                                                                                                                                 | Determination of redox potential by electrometric measurement                                                                               | E113      |
| Water    | F           | Sulphate (as SO4)                                                                                                                               | Determination of sulphate by filtration & analysed by ion chromatography                                                                    | E109      |
| Water    | UF          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                           | E118      |
| Water    | F           | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS    | E106      |
| Water    | UF          | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through liquid:liquid extraction with toluene                                                                    | E111      |
| Water    | UF          | Total Organic Carbon (TOC)                                                                                                                      | Low heat with persulphate addition followed by IR detection                                                                                 | E110      |
| Water    | F           | TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)          | Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS | E104      |
| Water    | F           | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS | E104      |
| Water    | UF          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                              | E101      |
| Water    | UF          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                   | E101      |

Key

**F Filtered**  
**UF Unfiltered**



DETS Ltd  
Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN  
Tel : 01622 850410



4480

#### List of HWOL Acronyms and Operators

| Acronym | Description                                                         |
|---------|---------------------------------------------------------------------|
| HS      | Headspace analysis                                                  |
| EH      | Extractable Hydrocarbons - i.e. everything extracted by the solvent |
| CU      | Clean-up - e.g. by florisil, silica gel                             |
| 1D      | GC - Single coil gas chromatography                                 |
| 2D      | GC-GC - Double coil gas chromatography                              |
| Total   | Aliphatics & Aromatics                                              |
| AL      | Aliphatics only                                                     |
| AR      | Aromatics only                                                      |
| #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 eg. EH+HS_Total or EH_CU+HS_Total   |

#### Det - Acronym

Benzene - HS\_1D\_MS  
EPH (C10 - C40) - EH\_1D\_Total  
Ethylbenzene - HS\_1D\_MS  
MTBE - HS\_1D\_MS  
TPH CWG - Aliphatic >C10 - C12 - EH\_CU\_1D\_AL  
TPH CWG - Aliphatic >C12 - C16 - EH\_CU\_1D\_AL  
TPH CWG - Aliphatic >C16 - C21 - EH\_CU\_1D\_AL  
TPH CWG - Aliphatic >C21 - C34 - EH\_CU\_1D\_AL  
TPH CWG - Aliphatic >C5 - C34 - HS\_1D\_MS+EH\_CU\_1D\_AL  
TPH CWG - Aliphatic >C5 - C6 - HS\_1D\_MS\_AL  
TPH CWG - Aliphatic >C6 - C8 - HS\_1D\_MS\_AL  
TPH CWG - Aliphatic >C8 - C10 - EH\_CU\_1D\_AL  
TPH CWG - Aromatic >C10 - C12 - EH\_CU\_1D\_AR  
TPH CWG - Aromatic >C12 - C16 - EH\_CU\_1D\_AR  
TPH CWG - Aromatic >C16 - C21 - EH\_CU\_1D\_AR  
TPH CWG - Aromatic >C21 - C35 - EH\_CU\_1D\_AR  
TPH CWG - Aromatic >C5 - C7 - HS\_1D\_MS\_AR  
TPH CWG - Aromatic >C7 - C8 - HS\_1D\_MS\_AR  
TPH CWG - Aromatic >C8 - C10 - EH\_CU\_1D\_AR  
TPH CWG - Aromatic C5 - C35 - HS\_1D\_MS+EH\_CU\_1D\_AR  
TPH CWG - Total >C5 - C35 - HS\_1D\_MS+EH\_CU\_1D\_Total  
Toluene - HS\_1D\_MS  
m & p-xylene - HS\_1D\_MS  
o-Xylene - HS\_1D\_MS