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## **DETS Report No: 18-86918**

**Site Reference:** Claremont Road, Manchester

**Project / Job Ref:** A2212

**Order No:** A2212/JS

**Sample Receipt Date:** 21/12/2018

**Sample Scheduled Date:** 21/12/2018

**Report Issue Number:** 1

**Reporting Date:** 04/01/2019

**Authorised by:**

Russell Jarvis  
Associate Director of Client Services

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| Soil Analysis Certificate                  |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS1           | WS1           | WS2           | WS3           | WS4           |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A2212/JS                         | Depth (m)       | 0.30          | 1.00          | 0.60          | 0.60          | 0.40          |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379904        | 379905        | 379906        | 379907        | 379908        |

| Determinand                           | Unit          | RL     | Accreditation |                                                                 |              |              |              |                              |
|---------------------------------------|---------------|--------|---------------|-----------------------------------------------------------------|--------------|--------------|--------------|------------------------------|
| Asbestos Screen <sup>(S)</sup>        | N/a           | N/a    | ISO17025      | Detected                                                        | Not Detected | Not Detected | Not Detected | Detected                     |
| Sample Matrix <sup>(S)</sup>          | Material Type | N/a    | NONE          | Chrysotile present in microscopic loose fibrous asbestos debris |              |              |              | Fibre bundle present in soil |
| Asbestos Type <sup>(S)</sup>          | PLM Result    | N/a    | ISO17025      | Chrysotile                                                      |              |              |              | Chrysotile                   |
| pH                                    | pH Units      | N/a    | MCERTS        | 7.6                                                             | 8.3          | 7.9          | 7.8          | 7.8                          |
| Total Cyanide                         | mg/kg         | < 2    | NONE          | < 2                                                             | < 2          | < 2          | < 2          | < 2                          |
| Complex Cyanide                       | mg/kg         | < 2    | NONE          | < 2                                                             | < 2          | < 2          | < 2          | < 2                          |
| Free Cyanide                          | mg/kg         | < 2    | NONE          | < 2                                                             | < 2          | < 2          | < 2          | < 2                          |
| Total Sulphate as SO <sub>4</sub>     | mg/kg         | < 200  | NONE          | 39860                                                           | 2765         | 713          | 372          | 531                          |
| Total Sulphate as SO <sub>4</sub>     | %             | < 0.02 | NONE          | 3.99                                                            | 0.28         | 0.07         | 0.04         | 0.05                         |
| W/S Sulphate as SO <sub>4</sub> (2:1) | mg/l          | < 10   | MCERTS        | 1350                                                            | 1110         | 195          | 96           | 67                           |
| W/S Sulphate as SO <sub>4</sub> (2:1) | g/l           | < 0.01 | MCERTS        | 1.35                                                            | 1.11         | 0.19         | 0.10         | 0.07                         |
| Sulphide                              | mg/kg         | < 5    | NONE          | < 5                                                             | < 5          | < 5          | < 5          | < 5                          |
| Organic Matter                        | %             | < 0.1  | MCERTS        | 2                                                               | 1.3          | 2.9          | 1.5          | 2.7                          |
| Arsenic (As)                          | mg/kg         | < 2    | MCERTS        | 14                                                              | 12           | 11           | 8            | 18                           |
| Barium (Ba)                           | mg/kg         | < 5    | NONE          | 143                                                             | 125          | 97           | 88           | 192                          |
| Beryllium (Be)                        | mg/kg         | < 0.5  | NONE          | 0.6                                                             | 1            | 0.9          | 0.7          | 1                            |
| W/S Boron                             | mg/kg         | < 1    | NONE          | < 1                                                             | < 1          | < 1          | < 1          | < 1                          |
| Cadmium (Cd)                          | mg/kg         | < 0.2  | MCERTS        | 1.4                                                             | 0.2          | 0.3          | < 0.2        | 1.6                          |
| Chromium (Cr)                         | mg/kg         | < 2    | MCERTS        | 11                                                              | 19           | 14           | 17           | 19                           |
| Chromium (hexavalent)                 | mg/kg         | < 2    | NONE          | < 2                                                             | < 2          | < 2          | < 2          | < 2                          |
| Copper (Cu)                           | mg/kg         | < 4    | MCERTS        | 195                                                             | 30           | 91           | 24           | 51                           |
| Lead (Pb)                             | mg/kg         | < 3    | MCERTS        | 323                                                             | 127          | 97           | 53           | 209                          |
| Mercury (Hg)                          | mg/kg         | < 1    | NONE          | < 1                                                             | < 1          | < 1          | < 1          | < 1                          |
| Nickel (Ni)                           | mg/kg         | < 3    | MCERTS        | 11                                                              | 20           | 17           | 13           | 26                           |
| Selenium (Se)                         | mg/kg         | < 3    | NONE          | < 3                                                             | < 3          | < 3          | < 3          | < 3                          |
| Vanadium (V)                          | mg/kg         | < 2    | NONE          | 21                                                              | 25           | 22           | 22           | 33                           |
| Zinc (Zn)                             | mg/kg         | < 3    | MCERTS        | 175                                                             | 55           | 507          | 49           | 471                          |
| Total Phenols (monohydric)            | mg/kg         | < 2    | NONE          | < 2                                                             | < 2          | < 2          | < 2          | < 2                          |
| EPH (C10 - C40)                       | mg/kg         | < 6    | MCERTS        | 3800                                                            | 239          | 377          | 483          | 1010                         |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

Subcontracted analysis (S)



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| Soil Analysis Certificate                  |                 |               |               |  |  |  |
|--------------------------------------------|-----------------|---------------|---------------|--|--|--|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      |  |  |  |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied |  |  |  |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS4           | WS5           |  |  |  |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied |  |  |  |
| Order No: A2212/JS                         | Depth (m)       | 0.90          | 0.50          |  |  |  |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379909        | 379910        |  |  |  |

| Determinand                           | Unit          | RL     | Accreditation |              |              |  |  |  |
|---------------------------------------|---------------|--------|---------------|--------------|--------------|--|--|--|
| Asbestos Screen <sup>(S)</sup>        | N/a           | N/a    | ISO17025      | Not Detected | Not Detected |  |  |  |
| Sample Matrix <sup>(S)</sup>          | Material Type | N/a    | NONE          |              |              |  |  |  |
| Asbestos Type <sup>(S)</sup>          | PLM Result    | N/a    | ISO17025      |              |              |  |  |  |
| pH                                    | pH Units      | N/a    | MCERTS        | 7.6          | 7.8          |  |  |  |
| Total Cyanide                         | mg/kg         | < 2    | NONE          | < 2          | < 2          |  |  |  |
| Complex Cyanide                       | mg/kg         | < 2    | NONE          | < 2          | < 2          |  |  |  |
| Free Cyanide                          | mg/kg         | < 2    | NONE          | < 2          | < 2          |  |  |  |
| Total Sulphate as SO <sub>4</sub>     | mg/kg         | < 200  | NONE          | 469          | 714          |  |  |  |
| Total Sulphate as SO <sub>4</sub>     | %             | < 0.02 | NONE          | 0.05         | 0.07         |  |  |  |
| W/S Sulphate as SO <sub>4</sub> (2:1) | mg/l          | < 10   | MCERTS        | 41           | 32           |  |  |  |
| W/S Sulphate as SO <sub>4</sub> (2:1) | g/l           | < 0.01 | MCERTS        | 0.04         | 0.03         |  |  |  |
| Sulphide                              | mg/kg         | < 5    | NONE          | < 5          | < 5          |  |  |  |
| Organic Matter                        | %             | < 0.1  | MCERTS        | 2.4          | 2.2          |  |  |  |
| Arsenic (As)                          | mg/kg         | < 2    | MCERTS        | 13           | 15           |  |  |  |
| Barium (Ba)                           | mg/kg         | < 5    | NONE          | 174          | 146          |  |  |  |
| Beryllium (Be)                        | mg/kg         | < 0.5  | NONE          | 0.9          | 0.6          |  |  |  |
| W/S Boron                             | mg/kg         | < 1    | NONE          | < 1          | < 1          |  |  |  |
| Cadmium (Cd)                          | mg/kg         | < 0.2  | MCERTS        | 0.7          | 0.5          |  |  |  |
| Chromium (Cr)                         | mg/kg         | < 2    | MCERTS        | 17           | 15           |  |  |  |
| Chromium (hexavalent)                 | mg/kg         | < 2    | NONE          | < 2          | < 2          |  |  |  |
| Copper (Cu)                           | mg/kg         | < 4    | MCERTS        | 39           | 34           |  |  |  |
| Lead (Pb)                             | mg/kg         | < 3    | MCERTS        | 268          | 218          |  |  |  |
| Mercury (Hg)                          | mg/kg         | < 1    | NONE          | < 1          | < 1          |  |  |  |
| Nickel (Ni)                           | mg/kg         | < 3    | MCERTS        | 19           | 22           |  |  |  |
| Selenium (Se)                         | mg/kg         | < 3    | NONE          | < 3          | < 3          |  |  |  |
| Vanadium (V)                          | mg/kg         | < 2    | NONE          | 27           | 19           |  |  |  |
| Zinc (Zn)                             | mg/kg         | < 3    | MCERTS        | 272          | 138          |  |  |  |
| Total Phenols (monohydric)            | mg/kg         | < 2    | NONE          | < 2          | < 2          |  |  |  |
| EPH (C10 - C40)                       | mg/kg         | < 6    | MCERTS        | 381          | 426          |  |  |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C  
Subcontracted analysis (S)



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| Soil Analysis Certificate - Speciated PAHs |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS1           | WS1           | WS2           | WS3           | WS4           |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A2212/JS                         | Depth (m)       | 0.30          | 1.00          | 0.60          | 0.60          | 0.40          |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379904        | 379905        | 379906        | 379907        | 379908        |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | 5.02  | 0.13  | < 0.1 | 0.20  |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.21  | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.15  | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.16  | 0.16  | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.49  | 1.54  | 0.81  | 0.56  | 0.31  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | 0.17  | 1.52  | 0.30  | 0.15  | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 1.28  | 0.89  | 1.35  | 0.74  | 0.53  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 1.36  | 0.87  | 1.37  | 0.71  | 0.55  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 0.66  | 0.90  | 0.64  | 0.51  | 0.40  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 0.72  | 2.08  | 0.46  | 0.26  | 0.20  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.73  | 1.58  | 0.72  | 0.51  | 0.46  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.13  | 1.37  | 0.15  | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 0.40  | 4.79  | 0.45  | 0.32  | 0.24  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.50  | 1.76  | 0.51  | 0.45  | 0.42  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | 0.34  | 0.55  | 0.33  | 0.32  | 0.31  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | 2.60  | 0.32  | 0.29  | 0.28  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 6.8   | 25.8  | 7.9   | 4.8   | 3.9   |

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**Soil Analysis Certificate - Speciated PAHs**

|                                                   |                        |               |               |  |  |  |
|---------------------------------------------------|------------------------|---------------|---------------|--|--|--|
| <b>DETS Report No: 18-86918</b>                   | <b>Date Sampled</b>    | 20/12/18      | 20/12/18      |  |  |  |
| <b>Earth Environmental &amp; Geotechnical Ltd</b> | <b>Time Sampled</b>    | None Supplied | None Supplied |  |  |  |
| <b>Site Reference: Claremont Road, Manchester</b> | <b>TP / BH No</b>      | WS4           | WS5           |  |  |  |
| <b>Project / Job Ref: A2212</b>                   | <b>Additional Refs</b> | None Supplied | None Supplied |  |  |  |
| <b>Order No: A2212/JS</b>                         | <b>Depth (m)</b>       | 0.90          | 0.50          |  |  |  |
| <b>Reporting Date: 04/01/2019</b>                 | <b>DETS Sample No</b>  | 379909        | 379910        |  |  |  |

| Determinand            | Unit  | RL    | Accreditation |       |       |  |  |  |
|------------------------|-------|-------|---------------|-------|-------|--|--|--|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.14  | 0.19  |  |  |  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 0.31  | 0.42  |  |  |  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.31  | 0.41  |  |  |  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 0.32  | 0.35  |  |  |  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.31  | 0.33  |  |  |  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 0.14  | 0.16  |  |  |  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.38  | 0.37  |  |  |  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 |  |  |  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 0.22  | 0.20  |  |  |  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 2.1   | 2.4   |  |  |  |

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| Soil Analysis Certificate - TPH CWG Banded |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS1           | WS1           | WS2           | WS3           | WS4           |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A2212/JS                         | Depth (m)       | 0.30          | 1.00          | 0.60          | 0.60          | 0.40          |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379904        | 379905        | 379906        | 379907        | 379908        |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | 22     | < 3    | < 3    | < 3    | 9      |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | 1172   | 54     | 39     | 77     | 294    |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | 1194   | 54     | 39     | 77     | 303    |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | 3      | < 2    | 5      | 3      | 2      |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 42     | 5      | 33     | 12     | 21     |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 1478   | 97     | 149    | 209    | 241    |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 1523   | 102    | 186    | 225    | 265    |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | 2717   | 156    | 226    | 301    | 568    |

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| Soil Analysis Certificate - TPH CWG Banded |                 |               |               |  |  |  |
|--------------------------------------------|-----------------|---------------|---------------|--|--|--|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      |  |  |  |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied |  |  |  |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS4           | WS5           |  |  |  |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied |  |  |  |
| Order No: A2212/JS                         | Depth (m)       | 0.90          | 0.50          |  |  |  |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379909        | 379910        |  |  |  |

| Determinand          | Unit  | RL     | Accreditation |        |        |  |  |  |
|----------------------|-------|--------|---------------|--------|--------|--|--|--|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 |  |  |  |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 |  |  |  |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    |  |  |  |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    |  |  |  |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    |  |  |  |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | 11     |  |  |  |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | 48     | 162    |  |  |  |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | 48     | 173    |  |  |  |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 |  |  |  |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 |  |  |  |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    |  |  |  |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    |  |  |  |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | < 2    |  |  |  |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 12     | 6      |  |  |  |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 132    | 189    |  |  |  |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 145    | 195    |  |  |  |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | 193    | 369    |  |  |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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| Soil Analysis Certificate - BTEX / MTBE    |                 |               |               |               |               |               |
|--------------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      | 20/12/18      |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS1           | WS1           | WS2           | WS3           | WS4           |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: A2212/JS                         | Depth (m)       | 0.30          | 1.00          | 0.60          | 0.60          | 0.40          |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379904        | 379905        | 379906        | 379907        | 379908        |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | 10  | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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| Soil Analysis Certificate - BTEX / MTBE    |                 |               |               |  |  |  |
|--------------------------------------------|-----------------|---------------|---------------|--|--|--|
| DETS Report No: 18-86918                   | Date Sampled    | 20/12/18      | 20/12/18      |  |  |  |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied |  |  |  |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS4           | WS5           |  |  |  |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied |  |  |  |
| Order No: A2212/JS                         | Depth (m)       | 0.90          | 0.50          |  |  |  |
| Reporting Date: 04/01/2019                 | DETS Sample No  | 379909        | 379910        |  |  |  |

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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| Soil Analysis Certificate - Sample Descriptions |  |
|-------------------------------------------------|--|
| DETS Report No: 18-86918                        |  |
| Earth Environmental & Geotechnical Ltd          |  |
| Site Reference: Claremont Road, Manchester      |  |
| Project / Job Ref: A2212                        |  |
| Order No: A2212/JS                              |  |
| Reporting Date: 04/01/2019                      |  |

| DETS Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description                 |
|----------------|------------|-----------------|-----------|----------------------|-------------------------------------------|
| 379904         | WS1        | None Supplied   | 0.30      | 12.4                 | Black sandy clay with stones and concrete |
| 379905         | WS1        | None Supplied   | 1.00      | 17.7                 | Brown sandy clay with stones and concrete |
| 379906         | WS2        | None Supplied   | 0.50      | 17.7                 | Brown sandy clay with stones and concrete |
| 379907         | WS3        | None Supplied   | 0.60      | 16                   | Brown sandy clay with stones              |
| 379908         | WS4        | None Supplied   | 0.40      | 15.1                 | Black sandy clay with stones and brick    |
| 379909         | WS4        | None Supplied   | 0.90      | 22.1                 | Black sandy clay with brick               |
| 379910         | WS5        | None Supplied   | 0.50      | 15.1                 | Black sandy clay with stones              |

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

Insufficient Sample <sup>I/S</sup>

Unsuitable Sample <sup>U/S</sup>



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| Soil Analysis Certificate - Methodology & Miscellaneous Information |  |  |  |  |
|---------------------------------------------------------------------|--|--|--|--|
| DETS Report No: 18-86918                                            |  |  |  |  |
| Earth Environmental & Geotechnical Ltd                              |  |  |  |  |
| Site Reference: Claremont Road, Manchester                          |  |  |  |  |
| Project / Job Ref: A2212                                            |  |  |  |  |
| Order No: A2212/JS                                                  |  |  |  |  |
| Reporting Date: 04/01/2019                                          |  |  |  |  |

| 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           | 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**



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## **DETS Report No: 19-00085**

**Site Reference:** Claremont Road, Manchester

**Project / Job Ref:** A2212

**Order No:** None Supplied

**Sample Receipt Date:** 21/12/2018

**Sample Scheduled Date:** 07/01/2019

**Report Issue Number:** 2

**Reporting Date:** 14/01/2019

**Authorised by:**

Russell Jarvis  
Associate Director of Client Services

This report supersedes 19-00085, issue no.1.  
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| Soil Analysis Certificate                  |                 |               |               |  |  |  |
|--------------------------------------------|-----------------|---------------|---------------|--|--|--|
| DETS Report No: 19-00085                   | Date Sampled    | 20/12/18      | 20/12/18      |  |  |  |
| Earth Environmental & Geotechnical Ltd     | Time Sampled    | None Supplied | None Supplied |  |  |  |
| Site Reference: Claremont Road, Manchester | TP / BH No      | WS1           | WS4           |  |  |  |
| Project / Job Ref: A2212                   | Additional Refs | None Supplied | None Supplied |  |  |  |
| Order No: None Supplied                    | Depth (m)       | 0.30          | 0.40          |  |  |  |
| Reporting Date: 14/01/2019                 | DETS Sample No  | 380636        | 380637        |  |  |  |

| Determinand                            | Unit | RL      | Accreditation |       |         |  |
|----------------------------------------|------|---------|---------------|-------|---------|--|
| Asbestos Quantification <sup>(S)</sup> | %    | < 0.001 | ISO17025      | 0.055 | < 0.001 |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C  
Subcontracted analysis (S)



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| Soil Analysis Certificate - Methodology & Miscellaneous Information |  |  |  |  |
|---------------------------------------------------------------------|--|--|--|--|
| DETS Report No: 19-00085                                            |  |  |  |  |
| Earth Environmental & Geotechnical Ltd                              |  |  |  |  |
| Site Reference: Claremont Road, Manchester                          |  |  |  |  |
| Project / Job Ref: A2212                                            |  |  |  |  |
| Order No: None Supplied                                             |  |  |  |  |
| Reporting Date: 14/01/2019                                          |  |  |  |  |

| 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           | 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**