



# Final Report

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**Report No.:** 22-24052-1  
**Initial Date of Issue:** 04-Jul-2022  
**Client** Mayer Environmental Ltd  
**Client Address:** Transport Avenue  
Brentford  
TW8 9HA

**Contact(s):**  
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**Project** Mayer Suites

**Quotation No.:** Q20-22081 **Date Received:** 27-Jun-2022

**Order No.:** 129003800 **Date Instructed:** 27-Jun-2022

**No. of Samples:** 1

**Turnaround (Wkdays):** 5 **Results Due:** 01-Jul-2022

**Date Approved:** 04-Jul-2022

**Approved By:**

**Details:** Stuart Henderson, Technical  
Manager

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## Results - Water

**Project: Mayer Suites**

| <b>Client: Mayer Environmental Ltd</b> | <b>Chemtest Job No.:</b>    |      | 22-24052        |        |             |
|--|-----------------------------|------|-----------------|--------|-------------|
| Quotation No.: Q20-22081               | <b>Chemtest Sample ID.:</b> |      | 1456295         |        |             |
| Order No.: 129003800                   | Client Sample Ref.:         |      | DMITFER         |        |             |
|  | Client Sample ID.:          |      | DMITFER         |        |             |
|  | Sample Location:            |      | Discharge Point |        |             |
|  | Sample Type:                |      | WATER           |        |             |
|  | Date Sampled:               |      | 22-Jun-2022     |        |             |
|  | Time Sampled:               |      | 12:00           |        |             |
| Determinand                            | Accred.                     | SOP  | Units           | LOD    |             |
| pH                                     | U                           | 1010 |                 | N/A    | 8.3         |
| Electrical Conductivity                | U                           | 1020 | µS/cm           | 1.0    | 1200        |
| Fats, Oils & Grease                    | N                           | 1025 | mg/l            | 10     | < 10        |
| Suspended Solids At 105C               | U                           | 1030 | mg/l            | 5.0    | 210         |
| Rapidly Settleable Solids              | N                           | 1035 | µg/l            | 5000   | < 5000      |
| Settleable Solids                      | N                           | 1032 | µg/l            | 5000   | < 5000      |
| Biochemical Oxygen Demand              | N                           | 1090 | mg O2/l         | 4.0    | [B] 8.0     |
| Chemical Oxygen Demand                 | U                           | 1100 | mg O2/l         | 10     | [B] 55      |
| Alkalinity (Total)                     | U                           | 1220 | mg/l            | 10     | 150         |
| Chloride                               | U                           | 1220 | mg/l            | 1.0    | 100         |
| Ammonia (Free)                         | N                           | 1220 | mg/l            | 0.050  | 0.27        |
| Ammoniacal Nitrogen                    | U                           | 1220 | mg/l            | 0.050  | 2.9         |
| Nitrate                                | U                           | 1220 | mg/l            | 0.50   | < 0.50      |
| Phosphate                              | U                           | 1220 | mg/l            | 0.200  | < 0.20      |
| Sulphate                               | U                           | 1220 | mg/l            | 1.0    | 280         |
| Cyanide (Total) Low-Level              | N                           | 1300 | mg/l            | 0.0050 | < 0.0050    |
| Sulphide                               | U                           | 1325 | mg/l            | 0.050  | [B] < 0.050 |
| Arsenic (Dissolved)                    | U                           | 1455 | µg/l            | 0.20   | 0.66        |
| Boron (Dissolved)                      | U                           | 1455 | µg/l            | 10.0   | 220         |
| Cadmium (Dissolved)                    | U                           | 1455 | µg/l            | 0.11   | < 0.11      |
| Chromium (Dissolved)                   | U                           | 1455 | µg/l            | 0.50   | < 0.50      |
| Copper (Dissolved)                     | U                           | 1455 | µg/l            | 0.50   | 6.7         |
| Iron (Dissolved)                       | N                           | 1455 | µg/l            | 5.0    | 7.5         |
| Manganese (Dissolved)                  | U                           | 1455 | µg/l            | 0.50   | 580         |
| Nickel (Dissolved)                     | U                           | 1455 | µg/l            | 0.50   | 11          |
| Lead (Dissolved)                       | U                           | 1455 | µg/l            | 0.50   | 1.0         |
| Selenium (Dissolved)                   | U                           | 1455 | µg/l            | 0.50   | < 0.50      |
| Zinc (Dissolved)                       | U                           | 1455 | µg/l            | 2.5    | 320         |
| Arsenic (Total)                        | N                           | 1455 | µg/l            | 0.20   | 1.0         |
| Boron (Total)                          | N                           | 1455 | µg/l            | 10.0   | 260         |
| Cadmium (Total)                        | N                           | 1455 | µg/l            | 0.11   | < 0.11      |
| Chromium (Total)                       | N                           | 1455 | µg/l            | 0.50   | < 0.50      |
| Copper (Total)                         | N                           | 1455 | µg/l            | 0.50   | 10          |
| Iron (Total)                           | N                           | 1455 | µg/l            | 5.0    | 850         |
| Mercury (Total)                        | N                           | 1455 | µg/l            | 0.05   | < 0.05      |
| Manganese (Total)                      | N                           | 1455 | µg/l            | 0.50   | 590         |
| Nickel (Total)                         | N                           | 1455 | µg/l            | 0.50   | 14          |

## Results - Water

**Project: Mayer Suites**

|  |                                     |            |              |            |           |
|--|-------------------------------------|------------|--------------|------------|-----------|
| <b>Client: Mayer Environmental Ltd</b> | <b>Chemtest Job No.:</b> 22-24052   |            |              |            |           |
| Quotation No.: Q20-22081               | <b>Chemtest Sample ID.:</b> 1456295 |            |              |            |           |
| Order No.: 129003800                   | Client Sample Ref.: DMITFER         |            |              |            |           |
|  | Client Sample ID.: DMITFER          |            |              |            |           |
|  | Sample Location: Discharge Point    |            |              |            |           |
|  | Sample Type: WATER                  |            |              |            |           |
|  | Date Sampled: 22-Jun-2022           |            |              |            |           |
|  | Time Sampled: 12:00                 |            |              |            |           |
| <b>Determinand</b>                     | <b>Accred.</b>                      | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |           |
| Lead (Total)                           | N                                   | 1455       | µg/l         | 0.50       | 7.5       |
| Selenium (Total)                       | N                                   | 1455       | µg/l         | 0.50       | < 0.50    |
| Zinc (Total)                           | N                                   | 1455       | µg/l         | 2.5        | 400       |
| Mercury Low Level                      | U                                   | 1460       | mg/l         | 0.000010   | < 0.00001 |
| Total TPH >C10-C40                     | U                                   | 1670       | µg/l         | 10         | < 10      |
| Total Phenols                          | N                                   | 1900       | µg/l         | 5.00       | < 5.0     |

## Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

| <b>Sample:</b> | <b>Sample Ref:</b> | <b>Sample ID:</b> | <b>Sample Location:</b> | <b>Sampled Date:</b> | <b>Deviation Code(s):</b> | <b>Containers Received:</b> |
|----------------|--------------------|-------------------|-------------------------|----------------------|---------------------------|-----------------------------|
| 1456295        | DMITFER            | DMITFER           | Discharge Point         | 22-Jun-2022          | B                         | Coloured Winchester 1000ml  |
| 1456295        | DMITFER            | DMITFER           | Discharge Point         | 22-Jun-2022          | B                         | Plastic Bottle 1000ml       |

## Test Methods

| SOP  | Title  | Parameters included  | Method summary   |
|------|--|--|--|
| 1010 | pH Value of Waters   | pH   | pH Meter   |
| 1020 | Electrical Conductivity and Total Dissolved Solids (TDS) in Waters | Electrical Conductivity and Total Dissolved Solids (TDS) in Waters   | Conductivity Meter   |
| 1025 | Fats, Oils and Greases   | Fats, Oils and Greases   | Solvent extraction / Gravimetry  |
| 1030 | Total Suspended Solids   | Total suspended solids   | Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C. |
| 1035 | Total Solids   | Total Solids   | Gravimetry   |
| 1090 | Biochemical Oxygen Demand  | Biochemical Oxygen demand (BOD)  | Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20°C.                                     |
| 1100 | Chemical Oxygen Demand   | Chemical Oxygen demand (COD)   | Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].                          |
| 1220 | Anions, Alkalinity & Ammonium in Waters                            | Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium   | Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.   |
| 1300 | Cyanides & Thiocyanate in Waters                                   | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate  | Continuous Flow Analysis.  |
| 1325 | Sulphide in Waters   | Sulphides  | Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-phenylenediamine.                              |
| 1455 | Metals in Waters by ICP-MS   | Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc | Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).                     |
| 1460 | Mercury low-level in Waters by AFS                                 | Mercury  | Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.  |
| 1670 | Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID             | TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO  | Pentane extraction / GC FID detection  |
| 1900 | Phenols in Waters by GC-MS   | Approximately 24 substituted Phenols, including Chlorophenols  | Solvent extraction / GCMS detection  |

## **Report Information**

### **Key**

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|     |   |
|-----|---|
| U   | UKAS accredited   |
| M   | MCERTS and UKAS accredited  |
| N   | Unaccredited  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory  |
| I/S | Insufficient Sample   |
| U/S | Unsuitable Sample   |
| N/E | not evaluated   |
| <   | "less than"   |
| >   | "greater than"  |
| SOP | Standard operating procedure  |
| LOD | Limit of detection  |

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)