



# Final Report

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**Report No.:** 21-36935-1  
**Initial Date of Issue:** 10-Nov-2021  
**Client:** Mayer Environmental Ltd  
**Client Address:** Transport Avenue  
Brentford  
TW8 9HA  
**Contact(s):** Jackson Espin  
**Project:** EMR Erith 129-0000689-06  
**Quotation No.:** Q20-21739  
**Date Received:** 22-Oct-2021  
**Order No.:** 129002321  
**Date Instructed:** 22-Oct-2021  
**No. of Samples:** 1  
**Turnaround (Wkdays):** 5  
**Results Due:** 28-Oct-2021  
**Date Approved:** 10-Nov-2021  
**Subcon Results Due:** 12-Nov-2021

**Approved By:**

**Details:** Glynn Harvey, Technical Manager

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## Results - Water

**Project: EMR Erith 129-0000689-06**

| <b>Client: Mayer Environmental Ltd</b> | <b>Chemtest Job No.:</b> 21-36935   |            |              |            |              |
|--|-------------------------------------|------------|--------------|------------|--------------|
| Quotation No.: Q20-21739               | <b>Chemtest Sample ID.:</b> 1304574 |            |              |            |              |
| Order No.: 129002321                   | Client Sample Ref.: ER01            |            |              |            |              |
|  | Sample Type: WATER                  |            |              |            |              |
|  | Date Sampled: 21-Oct-2021           |            |              |            |              |
| <b>Determinand</b>                     | <b>Accred.</b>                      | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |              |
| pH                                     | U                                   | 1010       |              | N/A        | 5.9          |
| Electrical Conductivity                | U                                   | 1020       | µS/cm        | 1.0        | 810          |
| Fats, Oils & Grease                    | N                                   | 1025       | mg/l         | 10         | < 10         |
| Unsaponifiable Fats                    | N                                   | 1025       | mg/l         | 5.0        | < 5.0        |
| Suspended Solids At 105C               | U                                   | 1030       | mg/l         | 5.0        | 30           |
| Rapidly Settleable Solids              | N                                   | 1035       | mg/l         | 5.0        | < 5.0        |
| Settleable Solids                      | N                                   | 1032       | mg/l         | 5.0        | < 5.0        |
| Biochemical Oxygen Demand              | N                                   | 1090       | mg O2/l      | 4.0        | 80           |
| Chemical Oxygen Demand                 | U                                   | 1100       | mg O2/l      | 10         | 320          |
| Phosphate                              | U                                   | 1220       | mg/l         | 0.200      | < 0.20       |
| Sulphate                               | U                                   | 1220       | mg/l         | 1.0        | 180          |
| Arsenic (Dissolved)                    | U                                   | 1455       | µg/l         | 0.20       | 0.40         |
| Boron (Dissolved)                      | U                                   | 1455       | µg/l         | 10.0       | 570          |
| Cadmium (Dissolved)                    | U                                   | 1455       | µg/l         | 0.11       | < 0.11       |
| Chromium (Dissolved)                   | U                                   | 1455       | µg/l         | 0.50       | 7.9          |
| Copper (Dissolved)                     | U                                   | 1455       | µg/l         | 0.50       | 1.0          |
| Iron (Dissolved)                       | N                                   | 1455       | µg/l         | 5.0        | 3100         |
| Mercury (Dissolved)                    | U                                   | 1455       | µg/l         | 0.05       | < 0.05       |
| Manganese (Dissolved)                  | U                                   | 1455       | µg/l         | 0.50       | 400          |
| Nickel (Dissolved)                     | U                                   | 1455       | µg/l         | 0.50       | 22           |
| Lead (Dissolved)                       | U                                   | 1455       | µg/l         | 0.50       | 0.58         |
| Antimony (Dissolved)                   | U                                   | 1455       | µg/l         | 0.50       | 1.5          |
| Selenium (Dissolved)                   | U                                   | 1455       | µg/l         | 0.50       | 0.80         |
| Zinc (Dissolved)                       | U                                   | 1455       | µg/l         | 2.5        | 7.2          |
| Silver (Total)                         | N                                   | 1455       | µg/l         | 0.05       | < 0.05       |
| Arsenic (Total)                        | N                                   | 1455       | µg/l         | 0.20       | 0.40         |
| Boron (Total)                          | N                                   | 1455       | µg/l         | 10.0       | 580          |
| Cadmium (Total)                        | N                                   | 1455       | µg/l         | 0.11       | < 0.11       |
| Chromium (Total)                       | N                                   | 1455       | µg/l         | 0.50       | 7.9          |
| Copper (Total)                         | N                                   | 1455       | µg/l         | 0.50       | 1.0          |
| Iron (Total)                           | N                                   | 1455       | µg/l         | 5.0        | 3100         |
| Mercury (Total)                        | N                                   | 1455       | µg/l         | 0.05       | < 0.05       |
| Manganese (Total)                      | N                                   | 1455       | µg/l         | 0.50       | 400          |
| Nickel (Total)                         | N                                   | 1455       | µg/l         | 0.50       | 23           |
| Lead (Total)                           | N                                   | 1455       | µg/l         | 0.50       | 0.58         |
| Selenium (Total)                       | N                                   | 1455       | µg/l         | 0.50       | 0.80         |
| Tin (Total)                            | N                                   | 1455       | µg/l         | 0.50       | < 0.50       |
| Zinc (Total)                           | N                                   | 1455       | µg/l         | 2.5        | 7.2          |
| Total Organic Carbon                   | U                                   | 1610       | mg/l         | 2.0        | 130          |
| Total TPH >C10-C40                     | U                                   | 1670       | µg/l         | 10         | < 10         |
| PBDEs (Subcon)                         | SN                                  |            | ng/l         | 0.50       | See Attached |

## Results - Water

**Project: EMR Erith 129-0000689-06**

|  |                                     |            |              |              |
|--|-------------------------------------|------------|--------------|--------------|
| <b>Client: Mayer Environmental Ltd</b> | <b>Chemtest Job No.:</b> 21-36935   |            |              |              |
| Quotation No.: Q20-21739               | <b>Chemtest Sample ID.:</b> 1304574 |            |              |              |
| Order No.: 129002321                   | Client Sample Ref.: ER01            |            |              |              |
|  | Sample Type: WATER                  |            |              |              |
|  | Date Sampled: 21-Oct-2021           |            |              |              |
| <b>Determinand</b>                     | <b>Accred.</b>                      | <b>SOP</b> | <b>Units</b> | <b>LOD</b>   |
| Tetrabrombis A (Subcon)                | SN                                  |            | µg/l         | 0.100 < 0.10 |

## 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.   |
| 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).                     |
| 1610 | Total/Dissolved Organic Carbon in Waters                           | Organic Carbon   | TOC Analyser using Catalytic Oxidation   |
| 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  |

## **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)