



Final Report

Report No.:	21-43595-1		
Initial Date of Issue:	24-Dec-2021		
Client	Mayer Environmental Ltd		
Client Address:	Transport Avenue Brentford TW8 9HA		
Contact(s):	Jackson Espin		
Project	129-000689-07 EMR Erith		
Quotation No.:	Q20-21739	Date Received:	09-Dec-2021
Order No.:	129002566	Date Instructed:	09-Dec-2021
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	15-Dec-2021
Date Approved:	24-Dec-2021	Subcon Results Due:	03-Jan-2022

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Water

Project: 129-000689-07 EMR Erith

Client: Mayer Environmental Ltd	Chemtest Job No.:		21-43595		
Quotation No.: Q20-21739	Chemtest Sample ID.:		1337085		
Order No.: 129002566	Client Sample Ref.:		ER01		
	Sample Type:		WATER		
	Date Sampled:		07-Dec-2021		
Determinand	Accred.	SOP	Units	LOD	
Perfluorooctanoic Acid (PFOA) (Subcon)	SN		µg/l	N/A	See Attached
pH	U	1010		N/A	7.9
Electrical Conductivity	U	1020	µS/cm	1.0	620
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	92
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	140
Chemical Oxygen Demand	U	1100	mg O2/l	10	540
Phosphate	U	1220	mg/l	0.200	< 0.20
Sulphate	U	1220	mg/l	1.0	46
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.2
Boron (Dissolved)	U	1455	µg/l	10.0	530
Cadmium (Dissolved)	U	1455	µg/l	0.11	1.1
Chromium (Dissolved)	U	1455	µg/l	0.50	9.2
Copper (Dissolved)	U	1455	µg/l	0.50	15
Iron (Dissolved)	N	1455	µg/l	5.0	2900
Mercury (Dissolved)	U	1455	µg/l	0.05	1.0
Manganese (Dissolved)	U	1455	µg/l	0.50	380
Nickel (Dissolved)	U	1455	µg/l	0.50	13
Lead (Dissolved)	U	1455	µg/l	0.50	210
Antimony (Dissolved)	U	1455	µg/l	0.50	2.4
Selenium (Dissolved)	U	1455	µg/l	0.50	91
Zinc (Dissolved)	U	1455	µg/l	2.5	510
Silver (Total)	N	1455	µg/l	0.05	0.28
Arsenic (Total)	N	1455	µg/l	0.20	1.2
Boron (Total)	N	1455	µg/l	10.0	550
Cadmium (Total)	N	1455	µg/l	0.11	1.1
Chromium (Total)	N	1455	µg/l	0.50	9.7
Copper (Total)	N	1455	µg/l	0.50	15
Iron (Total)	N	1455	µg/l	5.0	2900
Mercury (Total)	N	1455	µg/l	0.05	1.0
Manganese (Total)	N	1455	µg/l	0.50	380
Nickel (Total)	N	1455	µg/l	0.50	14
Lead (Total)	N	1455	µg/l	0.50	210
Selenium (Total)	N	1455	µg/l	0.50	91
Tin (Total)	N	1455	µg/l	0.50	2.3
Zinc (Total)	N	1455	µg/l	2.5	510
Total Organic Carbon	U	1610	mg/l	2.0	89
Total TPH >C10-C40	U	1670	µg/l	10	63
Perfluorooctyl sulfonate (PFOS) (Subcon)	SN		µg/l	N/A	See Attached
PBDEs (Subcon)	SN		ng/l	0.50	See Attached
Tetrabrombis A (Subcon)	SN		µg/l	0.100	< 1.000

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

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

- 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

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