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Final Report

Report No.: 22-04600-1

Initial Date of Issue: 14-Feb-2022

Client Mayer Environmental Ltd

Client Address: Transport Avenue

Brentford TW8 9HA

Contact(s): Jackson Espin

Rebecca Beddard

Project 129-22081-5 EMR Great Yarmouth

Quotation No.: Q20-22081 Date Received: 08-Feb-2022

Order No.: Date Instructed: 08-Feb-2022

No. of Samples: 1

Turnaround (Wkdays): 5 Results Due: 14-Feb-2022

Date Approved: 14-Feb-2022

Approved By:

Details: Stuart Henderson, Technical

Manager

Results - Water

Project: 129-22081-5 EMR Great Yarmouth

Client: Mayer Environmental Ltd		Chemtest Job No.:				
Quotation No.: Q20-22081		Chemtest Sample ID.: 13 Client Sample Ref.: G				
Order No.:		Client Sample Ref.:				
		Sample Type:				
		Date Sampled:				
Determinand	Accred.	SOP	Units	LOD		
рН	U	1010		N/A	7.7	
Electrical Conductivity	U	1020		1.0	5900	
Fats, Oils & Grease	N	1025	mg/l	10	< 10	
Suspended Solids At 105C	U	1030	mg/l	5.0	88	
Biochemical Oxygen Demand	N	1090	J	4.0	[B] 18	
Chemical Oxygen Demand	U	1100	mg O2/l	10	[B] 230	
Alkalinity (Total)	U	1220	mg/l	10	690	
Chloride	U	1220	mg/l	1.0	1800	
Ammonia (Free)	N	1220	mg/l	0.050	0.58	
Ammoniacal Nitrogen	U	1220	mg/l	0.050	22	
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	46	
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	13	
Boron (Dissolved)	U	1455	μg/l	10.0	2000	
Cadmium (Dissolved)	U	1455	μg/l	0.11	0.38	
Chromium (Dissolved)	U	1455	μg/l	0.50	26	
Copper (Dissolved)	U	1455	μg/l	0.50	2.7	
Iron (Dissolved)	N	1455	μg/l	5.0	6900	
Manganese (Dissolved)	U	1455	μg/l	0.50	850	
Nickel (Dissolved)	U	1455	μg/l	0.50	57	
Lead (Dissolved)	U	1455	μg/l	0.50	110	
Selenium (Dissolved)	U	1455	μg/l	0.50	660	
Zinc (Dissolved)	U	1455	μg/l	2.5	820	
Arsenic (Total)	N	1455	μg/l	0.20	13	
Boron (Total)	N	1455	μg/l	10.0	2000	
Cadmium (Total)	N	1455	μg/l	0.11	0.38	
Chromium (Total)	N	1455	μg/l	0.50	26	
Copper (Total)	N	1455	μg/l	0.50	2.8	
Iron (Total)	N	1455	μg/l	5.0	6900	
Mercury (Total)	N	1455	μg/l	0.05	0.10	
Manganese (Total)	N	1455	μg/l	0.50	870	
Nickel (Total)	N	1455	μg/l	0.50	57	
Lead (Total)	N	1455	μg/l	0.50	110	
Selenium (Total)	N	1455	μg/l	0.50	670	
Zinc (Total)	N	1455	μg/l	2.5	820	
Mercury Low Level	U	1460	mg/l	0.000010	< 0.00001	
Total TPH >C10-C40	U	1670	μg/l	10	410	
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.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1367750	GY101			02-Feb-2022	В	Coloured Winchester 1000ml

Test Methods

SOP	Title	Parameters included	Method summary	
1010	pH Value of Waters	рН	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.	
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 **UKAS** accredited MCERTS and UKAS accredited M Unaccredited Ν This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for S this analysis This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited SN for this analysis Т 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