


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING 9658</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Eurofins Water Hygiene Testing UK Limited</p> <p>Issue No: 037 Issue date: 06 December 2021</p>	
	<p>i54 Business Park Valiant Way Wolverhampton WV9 5GB</p>	<p>Contact: Roderick Gibson Tel: +44 (0)1902 627200 E-Mail: roderickgibson@eurofins.com Website: www.eurofins.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address i54 Business Park Valiant Way Wolverhampton WV9 5GB</p> <p>Local contact Zaineb Al-Mamouri Tel: +44 (0)1902 627200 Fax: +44 (0)1902 746183 Email: ZainebAl-Mamouri@eurofins.com</p>	<p><u>Testing:</u> Water Chemistry Water Microbiology</p> <p><u>Support Functions:</u> All management activities</p>	W
<p>Address 6-8 Cochrane Square Brucefield Industrial Estate Livingston EH54 9DR</p> <p>Local contact Jennifer Trainer Tel: +44 (0)1506 534317 Fax: +44 (0)1506 534317 Email: jennifertrainer@eurofins.com</p>	<p><u>Testing:</u> Water Microbiology</p>	L
<p>Address The Technical Centre Wickham Road Grimsby DN31 3SL</p> <p>Local contact Michael Smith Tel: +44 (0)1472 262600 Fax: +44 (0)1472 262601 Email: michaelsmith@eurofins.com</p>	<p><u>Testing:</u> Water Microbiology</p>	G
<p>Address 1 Dukes Green Avenue Feltham TW14 0LR</p> <p>Local contact Paula Horne Tel: 07788 183687 Email: PaulaHorne@eurofins.com</p>	<p><u>Testing:</u> Water Microbiology</p>	H



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Ground and surface waters Drinking (excluding bottled waters at locations B, C and D) Process (tap and hot water systems) Recreational (man made)	<u>Microbiological Tests</u>	Documented In-house Methods	
	Enumeration of:		
	Coliforms, Total, <i>Escherichia coli</i>	MW17 MPN using IDEXX Quanti-Tray Procedure based on The Microbiology of Drinking Water Part 4D (2016)	W, L, G, H
		MW10 using Membrane Filtration (MLGA) based on "The Microbiology of Drinking Water" Part 4B 2016 with microtitre confirmation of coliforms using growth characterisation in Idexx Colilert-18 medium and oxidase reaction	W, L, G, H
	Total aerobic colony count: 37°C, 30°C and 22°C	MW3 based on The Microbiology of Drinking Water Part 7 2020	W, L, G, H
	Enterococci (Faecal streptococci)	MW6 based on The Microbiology of Drinking Water Part 5 2012	W, L, G, H
	Sulphite-reducing Clostridia including <i>Clostridium perfringens</i>	MW5 based on The Microbiology of Drinking Water Part 6 2021	W, L, G, H
<i>Pseudomonas</i> species	MW4 using membrane filtration on CFC Agar incubated at 25°C or 30°C for 48h with confirmation using oxidase reagent	W, L, G, H	
<i>Pseudomonas aeruginosa</i>	MW4 based on The Microbiology of Drinking Water Part 8 2015	W, L, G, H	



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<p>WATERS (cont'd)</p> <p>Drinking waters, process waters, man-made recreational waters</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Isolation and enumeration of:</p> <p><i>Legionella</i> species and <i>Legionella pneumophila</i> serogroups 1 and 2-14</p>	<p>Documented In-house Methods</p> <p>MW16 using filtration for clean waters, selective media and latex agglutination based on BS 6068 4-12 1998 (withdrawn)</p> <p>Method 30.1 based on ISO 11731:1998/BS 6068-4.12:1998 (withdrawn) using Oxoid Latex kit confirmation</p>	<p>W</p> <p>G</p>
	<p><i>Legionella</i> spp. and <i>Legionella pneumophila</i> confirmation</p>	<p>EUMM 3.60 using Bruker MALDI-TOF-MS in conjunction with MW16 for latex agglutination</p>	<p>W</p>
	<p><i>Legionella</i> species and <i>Legionella pneumophila</i> SG1-14</p>	<p>MW28 based on BS EN ISO 11731:2017 using filtration with washing, using GVPC, Identification latex agglutination (Matrix A & B: Procedure 8, 9 & 10, Media C)</p>	<p>W, L, G, H</p>
<p>Drinking, Process (tap water not drinking)</p>	<p>Detection and Quantification of <i>Legionella pneumophila</i> and <i>Legionella</i> spp. DNA</p>	<p>MW19 using membrane filtration, extraction and DNA purification of sample followed by amplification of genomic sequences by Real-Time PCR using Bio-Rad Aquadien Kit and Bio-Rad CFX96 PCR system with C1000 Thermal Cyclers</p>	<p>W</p>
<p>Endoscope washer-disinfector rinse waters (free from disinfectant agents)</p>	<p>Total aerobic colony count at 30°C</p>	<p>MW20 using membrane filtration, plating on to TSA in duplicate, incubated for 5 days</p>	<p>W, G, H</p>



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<p>WATERS (cont'd)</p> <p>Treated Sewage Untreated Sewage Trade Effluent Ground Water Surface Water Drinking Water (Non-regulatory) Process Water Land Leachate Process Water (hydroponic solution)</p>	<p><u>Chemical and Physical Tests</u></p> <p>Ammonia as N Ammonia as NH₃ (by calculation) Ammonium as NH₄ (by calculation) Ammonium as N (by calculation) Nitrite as N Nitrite as NO₂ (by calculation) Nitrite as NO₃ (by calculation) Phosphorus Chloride Total Oxidised Nitrogen Sulphate Fluoride Colour</p>	<p>Documented In-house Methods</p> <p>EIWC01 Spectrophotometric determination of inorganic nutrients and colour</p>	<p>W</p>
<p>Treated Sewage Untreated Sewage Trade Effluent Ground Water Surface Water Drinking Water (Non-regulatory) Process Water Land Leachate Process Water (hydroponic solution)</p>	<p>pH Conductivity Alkalinity to pH 8.3 (phenolphthalein alkalinity or p-alklinity) Alklinity to pH 4.5 (total alkalinity, methyl orange or m-alkalinity)</p>	<p>EIWC02 Determination of pH, conductivity and Alkalinity</p>	<p>W</p>
<p>Ground Water Drinking Water (Non-regulatory) Treated Sewage Surface Water</p>	<p>Turbidity</p>	<p>EIWC03 Determination of Turbidity</p>	<p>W</p>



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WATERS (cont'd)	<u>Chemical Tests</u>	Documented In-house Methods	
Surface water Ground Water Drinking Water (Non-regulatory)	Free and total Chlorine	EIWC04 Determination of free and total chlorine using spectrophotometry	W
Ground Water Process Water Trade Effluent Treated Sewage Untreated Sewage Surface Water	Total Suspended Solids	EIWC05 Determination of Total Suspended Solids by Gravimetry	W
Ground Water Surface Water Process Water Trade Effluent Drinking Water (Non-regulatory)	Determination of Total Dissolved Solids and Total Solids	EIWC06 Determination of Total Dissolved solids and Total Solids by Gravimetry	W
Ground Water Untreated Sewage Treated Sewage Surface Water Land Leachate Process Water Trade Effluent	Chemical Oxygen Demand (COD)	EIWC08 Determination of Chemical Oxygen Demand by Closed Cuvette Digestion.	W
Treated Sewage Trade Effluent Untreated Sewage Land Leachates Process Water	Total Metals as follows: Aluminium, Boron, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Molybdenum, Nickel, Phosphorus, Potassium, Sulphur, Silicon, Silver, Sodium, Strontium, Tin, Vanadium, Zinc Calcium Hardness as CaCO ₃ (by calculation) Total Hardness as CaCO ₃ (by calculation)	EIWC09 Method for the Digestion of Raw and Treated Wastewater, Trade Effluent, Raw Waters and Beers AND EIWC10 for total metals using Inductively Coupled Plasma Optical Emission Spectrometric (ICP-OES)	W



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<p>WATERS (cont'd)</p> <p>Ground Water Trade Effluent Surface water Treated Sewage Process Water Process water – hydroponic solutions</p>	<p><u>Chemical Tests</u></p> <p>Dissolved Metals as follows Aluminium, Boron, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Molybdenum, Nickel, Phosphorus, Potassium, Sulphur, Silicon, Silver, Sodium, Strontium, Vanadium, Zinc</p>	<p>Documented In-house Methods</p> <p>EIWC09 Method for the Digestion of Raw and Treated Wastewater, Trade Effluent, Raw Waters and Beers AND EIWC11 for total metals using Inductively coupled Plasma Optical Emission Spectrometry (ICP-OES)</p>	<p>W</p>
<p>Process Water Ground Water Surface Water Drinking Water (Non-regulatory)</p>	<p>Total Silver</p>	<p>EIWC13 using Inductively Coupled Plasma Mass Spectrometric (ICP-MS)</p>	<p>W</p>
<p>Process Water Ground Water Surface Water Drinking Water (Non-regulatory)</p>	<p>Dissolved and Total Metals as follows Aluminium, Antimony, Arsenic, Boron, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Sulphur, Silicon, Silver, Sodium, Strontium, Thallium, Titanium, Vanadium, Zinc Calcium Hardness as CaCO₃ (by calculation)</p>	<p>EIWC12 using Inductively Coupled Plasma Mass Spectrometric (ICP-MS)</p>	<p>W</p>
<p>Trade Effluent Drinking Water - (Non-Regulatory) Process Water Borehole Water</p>	<p>Dissolved metals as follows: Aluminium, Antimony, Arsenic Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum Nickel, Rubidium, Selenium, Strontium, Tin, Zinc</p>	<p>ICPMS/009 using Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</p>	<p>W</p>



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Trade Effluents, Treated Sewage, Untreated Sewage, Process Water	Analysis of Biochemical Oxygen Demand (Total, Filtered and Settled)	EIWC21 – Analysis of Biochemical Oxygen Demand Optical Biochemical Oxygen Demand probe	W
Process water Treated surface water Treated ground water	Permanganate value (PV)	EIWC07 Analysis of Permanganate Value by titrimetry	W
WATERS	<u>Physical Tests</u>	Documented In-house Methods	
Surface water, Borehole Water, Untreated Sewage, Treated Sewage, Land Leachtes, Process water – Hydroponic Solutions	Conductivity	N/011 using conductivity	W
	pH	N/018 using pH electrode	W
END			