


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	Eurofins Water Hygiene Testing UK Limited	
	Issue No: 018 Issue date: 05 October 2018	
	i54 Business Park Valiant Way Wolverhampton WV9 5GB	Contact: Claire Keel Tel: +44 (0)1902 627200 E-Mail: clairekeel@eurofins.com Website: www.eurofins.com
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code	
Address i54 Business Park Valiant Way Wolverhampton WV9 5GB	Local contact Zaineb Al-Mamour Tel: +44 (0)1902 627200 Fax: +44 (0)1902 746183 Email: zainebalmamour@eurofins.com	Testing: Water Chemistry Water Microbiology Support Functions: All management activities	A
Address Prova Court 17 Doman Road Camberley Surrey GU15 3DF	Local contact Sam Hughes Tel: +44 (0)1276 686575 Fax: +44 (0)121 251 4040 Email: samhughes@eurofins.com	Testing: Water Chemistry Water Microbiology	B
Address 6-8 Cochrane Square Brucefield Industrial Estate Livingston EH54 9DR	Local contact Jennifer Trainer Tel: +44 (0)1506 534317 Fax: +44 (0)1506 534317 Email: jennifertrainer@eurofins.com	Testing: Water Microbiology	C



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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
<p>WATERS</p> <p>Ground and surface waters Drinking (excluding bottled waters at locations B and C),</p> <p>Process (tap and hot water systems) Recreational (man made)</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration of:</p> <p>Coliforms, Total <i>Escherichia coli</i></p>	<p>Documented In-house Methods</p> <p>MW17 MPN using IDEXX Quanti-Tray Procedure based on The Microbiology of Drinking Water Part 4D (2016)</p> <p>MW9 using Membrane Filtration (MLGA) based on "The Microbiology of Drinking Water" Part 4B 2016</p> <p>MW10 using Membrane Filtration (MLGA) based on "The Microbiology of Drinking Water" Part 4B 2009 with microtitre confirmation using growth characterisation in Idexx Colilert-18 medium and oxidase reaction</p>	<p>A, B, C</p> <p>A, B</p> <p>B</p>
	<p>Total aerobic colony count: 37°C, 30°C and 22°C</p>	<p>MW3 based on The Microbiology of Drinking Water Part 7 2012</p>	<p>A, B, C</p>
	<p>Enterococci (Faecal streptococci)</p>	<p>MW6 based on The Microbiology of Drinking Water Part 5 2012</p>	<p>A, B, C</p>
	<p>Sulphite-reducing Clostridia including <i>Clostridium perfringens</i></p>	<p>MW5 based on The Microbiology of Drinking Water Part 6 2010</p>	<p>A, B, C</p>
	<p><i>Pseudomonas</i> species, presumptive</p>	<p>MW4 using CFC Agar at 25°C for 48h or 30°C for 48h</p>	<p>A, B, C</p>
	<p><i>Pseudomonas aeruginosa</i></p>	<p>MW4 based on The Microbiology of Drinking Water Part 8 2015</p>	<p>A, B, C</p>
	<p><i>Pseudomonas aeruginosa</i></p>	<p>MW18 using IDEXX Pseudalert based on – "The Microbiology of Drinking Water"- Part 8C 2015</p>	<p>A, B</p>



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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><i>Legionella</i> spp. and <i>Legionella pneumophila</i> confirmation</p> <p><i>Legionella</i> species including <i>L. pneumophila</i> SG1-14</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</p> <p>EUMM 3.60 using Bruker MALDI-TOF-MS in conjunction with MW16 for latex agglutination</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>A, B</p> <p>A</p> <p>C</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 Cycler</p>	<p>A</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>A, B</p>



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<p>WATERS</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, Nitrite, Phosphorus, Chloride, Total Oxidised Nitrogen, Sulphate, Fluoride, Colour</p>	<p>Documented In-house Methods</p> <p>EIWC01 Method for Spectrophotometric Determination of Ammonia, Nitrite, soluble Reactive Phosphorus, Chloride, Total Oxidised nitrogen, Sulphate, Fluoride and Colour using Discrete Analyser (Aquakem 250 and Aquakem 600)</p>	A
<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</p>	<p>EIWC02 Determination of pH, conductivity and Alkalinity using Metrohm 815 Sample Changer, 809 Titrand and 712 Conductometer.</p>	A
<p>Ground Water Drinking Water (Non-regulatory) Treated Sewage Surface Water</p>	<p>Turbidity</p>	<p>EIWC03 Method for the Determination of Turbidity Using the HACH 2100</p>	A
<p>Surface water Ground Water Drinking Water (Non-regulatory)</p>	<p>Free and total Chlorine</p>	<p>EIWC04 analysis of Free and Total Chlorine Using HACH Powder Pillows</p>	A, B
<p>Ground Water Process Water Trade Effluent Treated Sewage Untreated Sewage Surface Water</p>	<p>Total Suspended Solids</p>	<p>EIWC05 Determination of Total Suspended Solids</p>	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods	
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	A
Ground Water Untreated Sewage Treated Sewage Surface Water Land Leachate Process Water	Chemical Oxygen Demand (COD)	EIWC08 Determination of Chemical Oxygen Demand by the Dr Lange COD Analysis System using the LCK114 Extended Profile	A
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	EIWC09 Method for the Digestion of Raw and Treated Wastewater, Trade Effluent, Raw Waters and Beers using the Environmental Express SC 154 Hotblock Digestion system AND EIWC10 using Inductively Coupled Plasma Optical Emission Spectrometric Determination of Total Metals Using ICP-OES	A
Ground Water Trade Effluent Surface water Treated Sewage Process Water Process water – hydroponic solutions	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	EIWC09 Method for the Digestion of Raw and Treated Wastewater, Trade Effluent, Raw Waters and Beers using the Environmental Express SC 154 Hotblock Digestion system AND EIWC11 Method for the Inductively coupled Plasma Optical Emission Spectrometry (ICP-OES)	A
Process Water Ground Water Surface Water Drinking Water (Non-regulatory)	Total Silver	EIWC13 using Inductively Coupled Plasma Mass Spectrometric (ICP-MS)	A



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<p>WATERS (cont'd)</p> <p>Process Water Ground Water Surface Water Drinking Water (Non-regulatory)</p>	<p><u>Chemical Tests</u> (cont'd)</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</p>	<p>Documented In-house Methods</p> <p>EIWC12 using Inductively Coupled Plasma Mass Spectrometric (ICP-MS)</p>	A
<p>Process waters (hydroponic solutions)</p>	<p>Ammonia Chloride Nitrate</p>	I/059 by discrete analyser	A
<p>Raw and potable waters</p>	<p>Ammonia Chloride Nitrate Orthophosphates</p>	I/059 by discrete analyser	A
<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>	ICPMS/009 using Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	A
<p>Waste waters - leachates, untreated and treated domestic and industrial waste waters</p>	<p>Ammonia Chloride Nitrate Nitrite Orthophosphates</p>	I/059 by discrete analyser	A



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WATERS (cont'd) Process water Treated surface water Treated ground water	<u>Chemical Tests</u> (cont'd) Permanganate value (PV)	Documented In-house Methods EIWC07 Analysis of Permanganate Value by 4 hour digestion at 27°C using titrimetry	A
WATERS Surface water, Borehole Water, Untreated Sewage, Treated Sewage, Land Leachtes, Process water – Hydroponic Solutions	<u>Physical Tests</u> Conductivity pH	Documented In-house Methods N/011 using conductivity N/018 using pH electrode	A A
END			