

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>1758</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Affinity Water Ltd</h3> <p>Issue No: 040 Issue date: 15 February 2021</p>	
	<p>Affinity Water UK Laboratory Scientific Services The Causeway Staines-upon-Thames Middlesex TW18 3BX</p>	<p>Contact: Mr K S Sidhu Tel: +44 (0)1707 398503 Fax: +44 (0)1707 398501 E-Mail: Kal.Sidhu@affinitywater.co.uk Website: www.affinitywater.co.uk</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 Affinity Water UK Laboratory Scientific Service The Causeway Staines-upon-Thames Middlesex TW18 3BX</p> <p>Local contact Mr K Sidhu Tel: +44 (0)1707 398503 Fax: +44 (0)1707 398501 Email: Kal.Sidhu@affinitywater.co.uk</p>	Environmental Analysis	A
<p>Address Stevenage Sampler Centre Affinity Water Limited Argyle Way Stevenage Hertfordshire SG1 2AD</p> <p>Local contact Mr K Sidhu Tel: +44 (0)1707 398503 Fax: +44 (0)1707 398501 Email: Kal.Sidhu@affinitywater.co.uk</p>	<u>Support Functions:</u> Sample receipt and distribution	B
<p>Address Staines Sampler Centre Affinity Water Limited The Causeway Staines-upon-Thames Middlesex TW18 3BX</p> <p>Local contact Mr K Sidhu Tel: +44 (0)1707 398503 Fax: +44 (0)1707 398501 Email: Kal.Sidhu@affinitywater.co.uk</p>	<u>Support Functions:</u> Sample receipt and distribution	C
<p>Address Folkestone Sampler Centre Affinity Water Limited The Cherry Garden Cherry Garden Lane Folkestone Kent CT19 4QB</p> <p>Local contact Mr K Sidhu Tel: +44 (0)1707 398503 Fax: +44 (0)1707 398501 Email: Kal.Sidhu@affinitywater.co.uk</p>	<u>Support Functions:</u> Sample receipt and distribution	D



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Water Treatment Works, Service Reservoirs, Domestic Premises	Sampling & on-site testing	E



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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	<u>Chemical Tests and Physical Tests</u>	Documented In-House Procedures based in/incorporating published procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Additional or alternative references are identified where appropriate.	
Surface Water, groundwater and drinking water	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 (as amended) [SI 614].	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
	Acrylamide	Method No 22 by direct injection LCMS QQQ Documented In-House Method	A
	Alkalinity	Method No 501 ISBN 011 751 601 5	A
	Ammonium	Method No 501 ISBN 011 751 613 9, (Method D), 1987	A
	Chloride	Method No 501 ISBN 011 751 626 0, (Method D), 1981	A
	Colour	Method No 402 ISBN 011 751 955 3, (Method A3), 1981	A
Surface water, groundwater and drinking water	Bromate Bromide Chlorate Chlorite	Method No 707 Documented In-House Method	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	
	Dissolved Oxygen	Method No 104 ISBN 011 751 442 X	A
	Dissolved Solids: Total	Method No 301 ISBN 011 751 957 X, 1980	A
	Dry Residues	Method No 301 ISBN 011 751 957 X, 1980	A
	Electrical conductivity	Method No 101 & Method No 105 ISBN 011 751 428 4, 1978	A
	Fluoride	Method No 704 ISBN 011 752 331 3	A
	Free Carbon Dioxide	Method No 204 'The Examination of Water and Water Supplies' Thresh, Beale, Suckling, 7 th Edition, page 212	A
	Hardness: Total	Method No 501 ISBN 011 751 600 7, 1981	A
Metals: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury	Method No 603 by ICP-MS	A	



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	
	Metals: (cont'd) Molybdenum Nickel Phosphorus Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium Zinc Uranium	Method No 603 by ICP-MS	A
	Nitrate by calculation [Oxidised Nitrogen minus Nitrite]	Method No 501	A
	Nitrite	Method No 501 ISBN 011 751 593 0, (Method H), 1981	A
	Organic Carbon: Total	Method No 1 ISBN 011 751 458 6, 1979	A
	Total Oxidised Nitrogen	Method No 501 ISBN 011 751 593 0, (Method C), 1981	A
	Permanganate Index (Oxidisability)	Method No 201 ISBN 011 751 960 X, 1983	A
	PFOS PFOA	Method No 23 by online SPE and LCMS-QQQ Documented In-House Method	A



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	
	pH	Method No 101 & Method No 105 ISBN 011 751 428 4, 1978	A
	Phosphate: Soluble reactive	Method No 501 ISBN 011 751 582 5, (Method A), 1980	A
	Polycyclic Aromatic Hydrocarbons (PAH's): Fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene	Method No 4 (using LC-MS-QQQ) ISBN 011 752 032 2, 1985	A
	Silica	Method No 501 'Colorimetric Chemical Analytical Methods', L C Thomas, Chambers 9 th Edition, page 341	A
	Solids: Suspended	Method No 303 ISBN 011 751 957 X, 1980	A
	Sulphate	Method No 501 ISBN 011 752 240 6, 1988, 2 nd Edition	A
	Taste and Odour (quantitative)	Method No 906 ISBN 011 752 967 2	A



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	A
	Volatile Organic Compounds: Chloroform Bromoform Chlorodibromomethane Bromodichloromethane Trichloroethene Tetrachloroethene 1,1,1-Trichloroethane Tetrachloromethane Benzene Toluene Ethyl benzene Total Xylene Vinyl Chloride MTBE 1,2-Dichloroethane O-Xylene M+P Xylene Trans 1,2-Dichloroethene Cis 1,2-Dichloroethene 1,1 Dichloroethene	Method No 18 by Headspace GCMS ISBN 011 752 004 7	
	Turbidity	Method 101 & Method No 105 ISBN 011 751 955 3, (Method B2), 1981	A



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u> Acid Herbicides: Mecoprop MCPA MCPB 2,4-D 2,4-DB 2.4.5-T 2,3,6-TBA Dichlorprop Fluroxypyr Fenoprop Bentazone Dicamba Imazapyr loxynil Bromoxynil Clopyralid Triclopyr Pentachlorophenol Hexavalent Chromium (Cr(VI))	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd) Method No 10 by LCMS-QQQ ISBN 011 751 886 7, 1985 Method 513 using colourimetry	A A



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	
	Organochlorine Pesticides: Dichlobenil Tecnazene Trifluralin Hexachlorobeneze γ -HCH Tri-allate Chlorothalonil Heptachlor Chlorpyrifos Aldrin cis-Heptachlor Epoxide trans-Heptachlor Epoxide α -Endosulfan Dieldrin Endrin β -Endosulfan pp-DDT	Method No 20 by SPE LVI GCMS ISBN 011 751 373 3, 1978	A
	Organonitrogen and Phosphorus Pesticides: Bromacil Diflufenican Fenpropimorph Flutriafol Pendimethalin Primicarb Azinphos-methyl Diazinon Dimethoate Heptenophos Malathion	Method No 24 by direct injection LCMS QQQ Documented in house method	A
	Chlormequat	Method 21 Documented in house method using LC-MS-QQQ	A



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Surface water, groundwater and drinking water (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) Miscellaneous Compounds: Atrazine Carbendazim Carbetamide Chlorotoluron Cyanazine Desethyl atrazine Diuron Isoproturon Linuron Metaldehyde Metazachlor Methabenzthiazuron Prometryn Propazine Propyzamide Quinmerac Simazine Terbutylazine Terbutryn Trietazine	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd) Method 26 Documented in house method using direct injection LCMS QQQ	A
Drinking Water, Surface Water, & Groundwater	Cyanide: Total	Method 416 using segmented flow injection analysis, in-line ultraviolet digestion and amperometric detection	A
WATERS	<u>Microbiological Tests</u>		
Bottled and Vending Machine Waters	<i>Clostridium perfringens</i> (presumptive)	Method No B4A based on the Microbiology of Drinking Water (MoDW) 2010 part 6	A
	Colony Counts: 3 days at 22 °C 1 day at 37 °C 2 days at 37 °C	Method No B2 based on the Microbiology of Drinking Water 2012 part 7	A



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WATERS (cont'd) Bottled, and Vending machine Waters (cont'd)	<u>Microbiological Tests</u> (cont'd) Coliforms (presumptive and confirmed) Coliforms (confirmed) <i>Escherichia coli</i> (presumptive and confirmed) <i>Escherichia coli</i> (confirmed) Enterococcus (presumptive and confirmed) <i>Pseudomonas aeruginosa</i> (presumptive and confirmed) Coliforms (identification)	Method No B1A based on MoDW Part 4 -Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016) Method No B11 Colilert Method based on MoDW Part 4 -Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016) Method No B1A based on MoDW Part 4 -Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016) Method No B11 Colilert Method based on MoDW Part 4 -Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016) Method No B3 based on the Microbiology of Drinking Water 2012 part 5 Method No B7 based on MoDW part 8 Methods for the isolation and enumeration of <i>Pseudomonas aeruginosa</i> (2015) Method B1A API 20E (Bio Merieux)	A A A A A A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)		
Endoscope Washer Disinfector Final Rinse Waters and Renal Dialysis Waters	Endotoxin	Documented In-House Method No C2 using Endosafe cartridge and PTS reader using kinetic turbidimetric LAL assay	A
	Total Viable Cell Counts at 22°C, 30°C and 37°C	Method C1 by membrane filtration HTM01-06 part E using R2A or TSA media	A
Endoscope washer– disinfector final rinse water	Isolation and enumeration of Environmental Mycobacteria	Method C4 by Membrane Filtration, confirmation using acid fast staining, based on Health Technical Memorandum (HTM) 01-06 part E 2016	A
Surface, Groundwater, and potable water	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 (SI 614) as amended	Documented In-House Procedures based on/incorporating procedures in the Standing Committee of Analysts publication “The Microbiology of Drinking Water,” Methodology meeting the requirements of the Drinking Water Testing Specification (DWTS)	
	<i>Clostridium perfringens</i> (presumptive)	Method No B4A based on the Microbiology of Drinking Water 2010 part 6	A
	Colony Counts: 3 days at 22 °C 1 day at 37 °C 2 days at 37 °C	Method No B2 based on the Microbiology of Drinking Water 2012 part 7	A
	Coliforms (presumptive and confirmed)	Method No B1A based on Part 4 - Methods for the Isolation and enumeration of coliform bacteria and Escherichia coli (2016)	A
	Coliforms (confirmed)	Method No B11 Colilert Method based on Part 4 - Methods for the Isolation and enumeration of coliform bacteria and Escherichia coli (2016)	A



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Surface, Groundwater, and potable water (cont'd)	Microbiological tests (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS) (cont'd)	
	<i>Escherichia coli</i> (presumptive and confirmed)	Method No B1A based on Part 4 - Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016)	A
	<i>Escherichia coli</i> (confirmed)	Method No B11 based on Part 4 -Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016) using Coli-ert	A
	Enterococcus (presumptive and confirmed)	Method No B3 based on the Microbiology of Drinking Water 2012 part 5	A
	<i>Pseudomonas aeruginosa</i> (presumptive and confirmed)	Method No B7 based on Methods for the isolation and enumeration of <i>Pseudomonas aeruginosa</i> (2015) Part 8	A
	Coliforms (identification)	API 20E (Bio Merieux) Method B1A	A
	Coliforms and Faecal Coliforms	Method No B1A based on Part 4 - Methods for the Isolation and enumeration of coliform bacteria and <i>Escherichia coli</i> (2016)	A
Groundwater and Drinking Waters	<i>Cryptosporidium</i> (confirmed) in filter modules	Method CALM1 using the Filta-Max Express method.	A
Surface, Groundwater and Drinking Waters	<i>Cryptosporidium</i> (confirmed) in bulk samples	Method CALM1 based on the Microbiology of Drinking Water 2010 part 14	A



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POTABLE AND RAW WATERS From Reservoirs, Water Treatment Works, Household and Industrial Potable Water Taps	<u>Sampling and on-site Testing</u> for the purpose of enforcement of The Water Supply (Water Quality) Regulations 2016 (SI 614) as amended	Where applicable the methodology meeting the requirements of The Drinking Water Testing Specification	E
	<u>Sampling</u> For Chemical and Microbiological/ <i>Cryptosporidium</i> Testing	SAMP1, SAMP2 Documented in-house Procedure for Sampling and on-site testing	
	<u>On-site Testing</u> Residual Chlorine (Free) Residual Chlorine (Total) Temperature	Documented in-house Procedure for Sampling and on-site testing	E
END			