


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1579</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>South East Water Ltd</b> <b>(trading as South East Water Scientific Services)</b>	
	Issue No: 073 Issue date: 22 July 2021	
	<b>3 Columbus Drive</b> <b>Southwood</b> <b>Farnborough</b> <b>GU14 0NZ</b>	<b>Contact: Mrs Helen Jones</b> <b>Tel: +44 (0)1634 276285</b> <b>Fax: +44 (0)1634 276277</b> <b>E-Mail: Helen.Jones@southeastwater.co.uk</b> <b>Website: www.sewscientificservices.co.uk</b>
<b>Testing performed by the Organisation at the locations specified</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
3 Columbus Drive Southwood Farnborough GU14 0NZ  <b>Contact:</b> Mrs Helen Jones Tel: +44 (0)1634 276285 Fax: +44 (0)1634 276277 E-Mail: Helen.Jones@southeastwater.co.uk Website: www.southeastwater.co.uk	<b>Testing:</b> Chemical and microbiological  <b>Support Functions:</b> Quality Administration	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Water Treatment Works Service Reservoirs, domestic premises, ground and surface water sources	Sampling and on-site testing	B



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**This schedule is ordered as follows:**

Section 1

ISO 17025 + DWTS

Inorganic Chemistry

Organic Chemistry

Sensory

Radiochemistry

Microbiology and Cryptosporidium

Sampling

Section 2

ISO 17025 only

Inorganic Chemistry Waters

Organic Chemistry Waters

Microbiology and Cryptosporidium

Note: Accreditation to DWTS automatically confers an equivalent accreditation to ISO 17025



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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
<b>SECTION 1</b>			
WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods	
Drinking, Surface and Ground Waters	Analysis for the purpose of the enforcement of The Water Supply (Water Quality) Regulations 2018.	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
		<u>Colorimetry using Discrete Analyser</u>	
	Alkalinity	Method No 235	A
	Chloride	Method No 215	A
	Total Hardness	Method No 205	A
	Nitrite	Method No 225	A
	TON	Method No 245	A
	Silica	Method No 285	A
	Nitrate	By calculation from Methods 225 and 245	A
	Soluble Reactive Phosphate	Method No 270 (Blue Book 147, 1992)	A
	Sulphate	Method No 305 (Blue Book 136, 1988)	A
	Ammonia and ammonium ions	Method No 255 (Blue Book 48, 1981)	A
	Chromium (VI)	Method No 3724	A
	Total Cyanide	Method No 5413 by continuous flow analysis	A
	Conductivity	Method No 660 by automated conductivity meter	A



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WATERS (Cont'd)  Drinking, Surface and Ground Waters	<u>Chemical Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods	
	pH	Method No 660 by automated pH Meter, or Method No 185 by Manual pH meter (Blue Book 14, 1978)	A
	pH	Method No 185 by Manual pH meter (Blue Book 14, 1978)	A
	Turbidity	Method No 650 by manual turbidimeter (Blue Book 103, 1981), or Method No 660 by automated turbidimeter	A
	Colour	Method No 660 by automated visible spectrometry, or Method No 620, by manual visible spectrometry. (Blue Book 103, 1981)	A
	<u>Metals:</u>	<u>ICP-MS</u>	
	Aluminium Iron Manganese Nickel Copper Zinc Lead	Method 730	A
	Chromium Cadmium Barium	Method 735	A



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WATERS (Cont'd)	<u>Chemical Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods		
Drinking, Surface and Ground Waters	<u>Metals: (cont'd)</u>	<u>ICP-MS</u>		
	Boron Calcium Magnesium Potassium Sodium	<u>Method 740</u>	A	
	Arsenic Selenium Antimony	<u>Method 745 by Nexion ICP-MS</u>	A	
	Lithium Beryllium Vanadium Cobalt Molybdenum Tin	Method 750	A	
	Strontium Uranium	Method 755	A	
	Total Phosphorus	Method 760	A	
	Mercury	Method 765	A	
	Silver	Method 770	A	
		<u>Ion Chromatography</u>		
	Chlorate Fluoride Bromide Chlorite	Method No 3371	A	
Bromate	Method No 3401	A		



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WATERS (Cont'd)	<u>Chemical Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods	
Drinking, Surface and Ground Waters	Total Organic Carbon	Method No 250 by TOC analyser (Blue Book 157, 1995)	A
Surface and Ground Waters	Total Dissolved Solids at 180°C	Method No 170 by gravimetry (Blue Book 105, 1980)	A
Drinking, Surface and Ground Waters	Conductivity	Method No 705 by manual conductivity meter	A
Drinking water and ground water	Dry Residues	Method No 315 using gravimetry	A



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WATERS (Cont'd)	<u>Chemical Tests (Cont'd):</u>		
Drinking, Surface and Ground Waters	<u>Hydrocarbons and Halogenated Hydrocarbons:</u>  Benzene 1,2, Dichloroethane Trichloromethane 1,1,1, Trichloroethane Tetrachloromethane Trichloroethene Bromodichloromethane Tetrachloroethene Chlorodibromomethane Tribromomethane	Method No 775 by Headspace GC-MS	A
	Total Chlorthal	Method 3841 by GC-MS	A
	<u>VOCs:</u>		
	Methyl Tertiary Butyl Ether (MTBE) Benzene Toluene Ethylbenzene m/p-Xylene o-Xylene Styrene 3-Ethyltoluene 1,2,4-Trimethylbenzene	Method No 2852 by Headspace GC-MS	A
	<u>PAH'S:</u>	<u>HPLC-Fluorescence Detection</u>	A
	Benzo-3,4-fluoranthene Benzo-1,12-fluoranthene Benzo-1,12-perylene Benzo-3,4-pyrene Fluoranthene Indeno-1,2,3-cd-pyrene	Method No 480 (Blue Book 165, 1997)	



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WATERS (Cont'd)	<u>Chemical Tests (Cont'd)</u>		
Drinking, Surface and Ground Waters	<u>Acid Herbicides</u> 2,4-D 2,4-DB 2,4,5-T Benazolin Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Fluroxypyr Ioxynil MCPA MCPB Mecoprop (MCP) Pentachlorophenol (PCP) Picloram (Drinking and GW only) Triclopyr	<u>Direct Aqueous Injection</u> <u>LC-MS-MS</u> Method 3545	A
	Fenpropimorph	<u>Direct Aqueous Injection</u> <u>LC-MS-MS</u> - Method 3551	A
	Metaldehyde	<u>Direct Aqueous Injection</u> <u>LC-MS-MS</u> - Method 3809	A
	<u>Acid Herbicides</u> 2,4-D 2,4-DB 2,4,5-T Benazolin Bentazone Bromoxynil Dicamba Dichlorprop Fluroxypyr Ioxynil MCPA MCPB Mecoprop (MCP) Pentachlorophenol (PCP) Triclopyr	On-line SPE / LC-MS-MS Method 715	A





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WATERS (Cont'd)  Drinking, Surface and Ground Waters	<u>Chemical Tests (Cont'd)</u>  Aldrin Chlorpropham Chlorpyrifos Chlorthal dimethyl Diazinon Dichlobenil Dieldrin Ethoprop Fenpropimorph Heptachlor epoxide A Heptachlor epoxide B Heptachlor Lindane Propachlor Propetamphos Propham Propyzamide Tecnazene Triallate Trifluralin	GC-MS-MS Method 4170	A
Drinking, Surface and Ground Waters	<u>Herbicides</u>  Bromacil Chloridazon Deisopropyl Atrazine Desethyl Atrazine Diflufenican Dimethoate Flufenacet Fluopyram Metamitron Methabenzthiazuron Monuron Prosulfocarb Clomazone Dimethomorph Fludioxonil Fluopicolide Fosthiazate Metobromuron Metribuzin	LC-QQQ In-House Method 4548	A



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WATERS (Cont'd)	<u>Chemical Tests (Cont'd)</u>		
Drinking, Surface and Ground Waters	Nicosulfuron Oxamyl Pirimicarb Propiconazole Terbutylazine	LC-QQQ In-House Method 4548	A
Drinking, Surface and Ground Waters	Atrazine Azoxystrobin Boscalid Carbendazim Carbetamide Chlortoluron Cyproconazole Diuron Epoconazole Flusilazole Flutriafol Isoproturon Linuron Mesosulfuron-methyl Metazachlor Oxadixyl Pendimethalin Prometryn Propazine Quinmerac Simazine Tebuconazole Terbutryn Trietazine	<u>LC-MS-MS</u> Method 2587	A
Drinking Water Only	Taste	Method 230 by panel based on MEWAM Standing Committee of Analysts Method "Determination of Taste and Odour in Potable Waters", 2014	A
Drinking and Raw Waters	Odour	Method 230 by panel	A



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WATERS (Cont'd)	<u>Chemical Tests (Cont'd)</u>		
Drinking and Ground Waters	Gross alpha (relative to AM-241) Gross beta (relative to K-40)	Method No 295 by gas-flow proportional counting	A
Drinking, Surface and Ground Waters	Tritium	Method No 5374 by Liquid Scintillation (Maximum reporting limit 20Bq/l)	A
	<u>Microbiological Tests</u>	Documented In-House Methods based on procedures in MODW Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
Drinking, Surface and Ground Waters,	Enumeration of: Coliforms, presumptive and confirmed	Method No 400 using the Colilert system (MoDW Part 4, 2016)	A
Drinking, Surface and Ground Waters	Coliforms, presumptive and confirmed	Method No 385 by membrane filtration using MLGA (MoDW Part 4, 2016)	A
Drinking, Surface and Ground Waters,	<i>Escherichia coli</i> , presumptive and confirmed	Method No 400 using the Colilert system	A
Drinking, Surface and Ground Waters	<i>Escherichia coli</i> , presumptive and confirmed	Method No 385 by membrane filtration using MLGA	A
Drinking, Surface and Ground Waters,	<i>Pseudomonas aeruginosa</i> presumptive and confirmed	Method No 410 by membrane filtration (MoDW Part 8, 2015)	A
Drinking water	<i>Pseudomonas species</i> confirmed	Method 3383 by membrane filtration	A
Drinking, Surface and Ground Waters,	Total aerobic colony count at 22 °C and at 37 °C	Method No 430 by pour plate, using YEA (MoDW Part 7, 2020)	A



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WATERS (Cont'd)	<u>Microbiological Tests</u> Analysis for the purpose of the enforcement of The Water Supply (Water Quality) Regulations 2018.	Documented In-House Methods based on procedures in MODW Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
Drinking, Surface and Ground Waters	Enterococci, presumptive and confirmed	Method No 390 by membrane filtration (MoDW Part 5, 2012)	A
	Enterococci	Method 780 using the Enterolert System (MoDW Part 5, 2012)	A
	Clostridium perfringens including spores, presumptive and confirmed	Method No 360 by membrane filtration (MoDW Part 6, 2021)	A
Drinking, Surface and Ground Waters	Detection of: <i>Cryptosporidium</i> oocysts, confirmed and <i>Giardia</i> cysts, confirmed	Method No 420 using Filta-Max xpress system, Filta-Max system, Genra filtration or membrane filtration (MODW part 14,2010)	A



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<p>WATERS (Cont'd)</p> <p>From: Water Treatment Works Service Reservoirs Consumers' Taps Associated raw waters</p>	<p>Sampling and Analysis for the purpose of enforcement of The Water Supply (Water Quality) Regulations 2018 (SI 2000/3184)</p> <p><u>Sampling</u> For Chemical and Microbiological testing (including cryptosporidium)</p> <p><u>On-site Testing</u></p>	<p>Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)</p>	<p>B</p>
<p>Drinking Water</p>	<p>Free Chlorine Total Chlorine</p>		<p>B</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>SECTION 2</b>			
WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods	
Process Waters	Total Dissolved Solids at 105°C	Method No 170 by gravimetry (Blue Book 105, 1980)	A
	Conductivity	Method No 705 by manual conductivity meter	A
Process waters, Trade effluent and Treated Sewage	pH	Method No 185 by Manual pH meter (Blue Book 14, 1978)	A
Surface Water, Process Waters, Treated Sewage, and Trade Effluents	Total Suspended Solids	Method No 310 by gravimetry (Blue Book 105, 1980)	A
Surface Water, Trade Effluent and Treated Sewage Effluent	Chemical Oxygen Demand	Method No 125 by test kit - colorimetry (Blue Book 215, 2007)	A
Process Water (heating & cooling systems) and Trade Effluent	<u>Metals:</u> Aluminium Calcium Copper Iron Magnesium Molybdenum Zinc Arsenic Barium Boron Cadmium Chromium Lead Manganese Nickel Potassium Sodium Phosphorous	Method No 3546 using ICP-OES	A



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WATERS (Cont'd)	<u>Chemical Tests</u>		
Trade Effluent Only	Mercury	Method No 3546 using ICP-OES	A
Process Water (Heating and Cooling systems)	Alkalinity Ammonia Chloride Nitrite Soluble Reactive Phosphate Sulphate Total Oxidised Nitrogen Nitrate (by calculation)	Method 4095 using Smartchem analyser	A
Trade Effluent and Treated Sewage Effluent	Ammonia Chloride Nitrite Soluble Reactive Phosphate Sulphate	Method 4095 using Smartchem analyser	A
Treated Sewage Effluent	Total Oxidised Nitrogen	Method 4095 using Smartchem analyser	A
Surface Water, Treated Sewage Effluent and Trade Effluent (including WTW effluent)	Biochemical Oxygen Demand	Method 720 by DO probe	A



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WATERS (Cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods based on procedures in MODW Methodology	
Drinking and Process Waters	Isolation and enumeration of <i>Legionella pneumophila</i> serogroup 1, <i>Legionella pneumophila</i> serogroups 2-14 and <i>Legionella</i> species	Method No 350 based on ISO 11731:1998 and BS ISO 11731-2:2004 (withdrawn) by pre-concentration / GVPC	A
Process Waters	Enumeration of: Total aerobic colony count at 30°C	Method No 430 by pour plate, using YEA (MoDW Part 7, 2020)	A
Healthcare Waters	Total Viable Count @ 30°C	Method No 3530 by membrane filtration	A
Swimming Pool and Spa Water	Coliforms, confirmed	Method No 400 using the Colilert system (MoDW Part 4, 2016)	A
	<i>Escherichia coli</i> , confirmed	Method No 400 using the Colilert system	A
	<i>Pseudomonas aeruginosa</i> presumptive and confirmed	Method No 410 by membrane filtration (MoDW Part 8, 2015)	A
Process Water and Swimming Pool Water	<i>Pseudomonas species</i> confirmed	Method 3383 by membrane filtration	A





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Waters (Cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods based on procedures in MODW Methodology	
Process Water, Swimming Pool Water and Spa Water	Total aerobic colony count at 22 °C and at 37 °C  Detection of:	Method No 430 by pour plate, using YEA (MoDW Part 7, 2020)	A
Swimming Pool Water	<i>Cryptosporidium</i> oocysts, confirmed and <i>Giardia</i> cysts, confirmed	Method No 420 using Filta-Max xpress system, Filta-Max system, Genra filtration or membrane filtration (MODW part 14,2010)	A
END			