

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1361 Accredited to ISO/IEC 17025:2017	South West Water Limited Issue No: 078 Issue date: 07 November 2022	
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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SECTION 1- DWTS & ISO 17025		
WATERS	<u>Chemical and Physical Tests</u> Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614].	The testing is in accordance with the Drinking Water Testing Specification (DWTS). Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses
Raw (Surface Water and Groundwater) Drinking Waters,	Colour	Spectrophotometry Method ref: COLOUR (0117519553, 1981, A3)
Raw (Surface Water and Groundwater) and Drinking Waters	Turbidity	Nephelometry Method ref: TURBIDITY (0117519553, 1981, B2)
Raw (Surface Water and Groundwater) Drinking Waters	pH Alkalinity Conductivity	Method ref: pH COND ALK IN WATERS (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
Raw (Surface Water and Groundwater) Drinking Waters	UV transmission (at 254nm) Absorbance	Method ref: UV Transmission by spectrophotometer
Raw (Surface Water and Groundwater) and Drinking Waters	Ammonium Chloride Nitrate by calculation Nitrite Total Oxidised Nitrogen Ortho-Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, F) (0117515930, 1981, D) (0117515930, 1981, D) (0117515930, 1981, H) (0117515930, 1981, D) (0117515825, 1980, A) (0117515574, 1980, B)
Surface Water and Drinking Waters	Silicate	Automated Colorimetric Analysis Method ref: NUTRIENTS
Raw (Surface Water and Groundwater) and Drinking Waters	Fluoride	Method ref: FLUORIDE by Ion Selective Electrode (HACH MM340)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Fluoride	Electrochemistry Method ref: FLUORIDE (0117516627, 1982)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Organic Carbon Dissolved Organic Carbon	Method ref: TOC L by Thermal Oxidation
Raw (Surface Water and Groundwater) and Drinking Waters	Metals: LOW RANGE :Total and Dissolved unless otherwise stated Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Sulphate Tin Titanium Uranium Vanadium Zinc	Method METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)
Hard and Soft Waters	pH	Method ref: pH COND ALK IN WASTE by electrode



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Pesticides by GC-MS including: Chlorothalonil Chlorpyrifos Cyprodinil Diazinon Dichlobenil Dieldrin Diflufenican Epoxyconazole Fenpropimorph Lindane Pendimethalin	Capillary Gas-Chromatography - Mass Spectrometry (0117513733) Method ref: MSINSECT
Drinking Waters	Taste and Odour	In House method ref TASTE AND ODOUR based on SCA "The determination of taste and odour in drinking waters (2014)" using assessed panel
Raw (Surface Water and Groundwater & WTW influent), Treated Waters and Drinking Waters	Geosmin Metaldehyde 2-methylisoborneol (MIB)	Documented in house method based on bluebook 226 The Determination of Metaldehyde in Waters using Chromatography with Mass Spectrometric detection (2009) and book 171 The assessment of taste, odour and related aesthetic problems in drinking waters 1998. Method ref: METALDEHYDE MIB GEOSMIN



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	2,4-D 2,4-DB Asulam Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Diclofenac Fluroxypyr Ibuprofen Ioxynil MCPA MCPB Mecoprop Naproxen Pentachlorophenol (PCP) Picloram Quinmerac Trichlopyr	Method ref: Acid Herbicides by LC-MSMS
Raw (Surface Water and Groundwater) and Drinking Waters	Neutral Herbicides: Range 0-250ng/l Cyromazine Metamitron Propamocarb Carbendazim Simazine Chlorotoluron Diuron Atrazine Isoproturon Linuron Azoxytobin Propyzamide Boscalid Tebuconazole	Documented in house method Method ref: NHERBMS using Liquid chromatography - mass spectrometry (LC-MS) utilising direct aqueous injection, positive electrospray ionisation (ESI+) and multiple reaction monitoring (MRM)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Trichloromethane (Chloroform) 1,2-Dichloroethane* Benzene* Tetrachloromethane* Trichloroethene* Bromodichloromethane* Tetrachloroethene* Dibromochloromethane* Tribromomethane (Bromoform)* Methyl-tert-butylether (MBTE) Methylbenzene (Toluene) Ethylbenzene 1,3-Dimethylbenzene/1,4-Dimethylbenzene (m & p xylene) 1,2-Dimethylbenzene (o-xylene) Ethenylbenzene (Styrene) Naphthalene	Method ref: VOC by headspace GCMS (Shimadzu), * Indicates also analysed on Agilent system
Raw (Surface Water and Groundwater) and Drinking Waters	Gross α relative to Am^{241} Gross β relative to K^{40}	Method ref: GROSS ALPHA AND BETA based on: BS ISO 9696:2007 BS ISO 9697:2008 SCA(HMSO) (01175909X, 1986)
Drinking Waters and Groundwaters	Radon 222 and Radium 226	Method ref: RADON
Drinking Waters, Surface Waters and Groundwaters	Tritium	Method ref: TRITIUM



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	<u>Microbiological Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614]	The testing is in accordance with the Drinking Water Testing Specification (DWTS)
Raw (Surface Water and Groundwater)	Total Coliforms, presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater)	<i>E. coli</i> , presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater) and Drinking Waters	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012)
Raw (Groundwater) and Drinking Waters	Faecal Streptococci (Enterococci), confirmed - Enterolert	Method ref: E BY ENTEROLERT. MoDW Part 5 (2012)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Coliforms, confirmed - Colilert <i>E. coli</i> , confirmed – Colilert	Method ref: TC and EC Colilert. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Viable Counts - by Pour Plate at 22 °C and 37 °C	Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)
Raw (Surface Water and Groundwater) and Drinking Waters	<i>Pseudomonas aeruginosa</i> , presumptive and confirmed - membrane filtration	Method ref: P AERUGINOSA BY MF. MoDW Part 8 (2015)
Raw (Surface Water and Groundwater) and Drinking Waters	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2021)
Raw (Surface Water and Groundwater) and Drinking Waters	Detection and enumeration of <i>Cryptosporidium</i> oocysts	Method ref: Crypto by Filtamaxpress. MoDW Part 14 (2010)
END OF SECTION 1		



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SECTION 2 MCERTS Waters & ISO 17025		
WASTEWATERS to MCERTS	<u>Chemical Tests</u>	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent
Untreated Sewage Treated Sewage Effluent Trade Effluent to Sewer and Controlled Waters	Nutrients medium range: Chloride Ammonium Nitrite Orthophosphate	Method ref: NUTRIENTS by automated discrete colourmetric analyser
Untreated Saline sewage effluent and Saline Treated sewage effluent	Nutrients Medium range: Ammonium as N	Method ref: NUTRIENTS by automated discrete colourmetric analyser
Saline Treated Sewage Effluent Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	BOD	Analysis by dissolved oxygen probe Method ref: BOD
Treated Sewage Effluent, Saline treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	Total, filtered, and settled COD: Low range (5-80mg/l)	Method ref: COD Merck by Spectrophotometer
Untreated sewage effluent, Saline untreated Sewage Effluent, and Trade Effluent to Sewer and Controlled Waters	Total, filtered, and settled COD: High range (25-1500mg/l)	Method ref: COD Merck by Spectrophotometer
Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	pH	Method ref: pH COND ALK IN WASTE by electrode



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WASTEWATERS to MCERTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent
Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters and Saline Treated Effluents	Suspended solids	Method ref: SUSPENDED SOLIDS
Untreated Sewage, Saline Untreated Sewage, Treated Sewage, Saline Treated Sewage Trade Effluent to Sewer, Trade Effluent to Controlled Waters	Total and Dissolved Metals: Aluminium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Nickel Phosphorus Potassium Sodium Silver Tin Zinc	Method ref: METALS & CATIONS BY ICPOES
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Hardness Calcium as mg/l Ca Hardness Carbonate as mg/l Ca Hardness Magnesium as mg/l Ca Hardness Non Carbonate as mg/l Ca Hardness Calcium as mg/l CaCO ₃ Hardness Magnesium as mg/l CaCO ₃ Hardness Total as mg/l Ca Hardness Total as mg/l CaCO ₃ Ammonium (Total) as mg/l NH ₄ Nitrite (Total) as mg/l N	By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation



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WASTEWATERS to MCERTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling And chemical testing of untreated And treated sewage, sewage Effluent, and trade effluent
Untreated Sewage, Saline Untreated Sewage, Treated Sewage, Saline Treated Sewage Trade Effluent to Sewer, Trade Effluent to Controlled Water	Total Sulphur	Method Ref: METALS & CATIONS BY ICPOES
Treated Sewage, Saline Treated Sewage, Trade Effluent to Controlled Water	Total & Dissolved Phosphorus (low levels)	Method Ref: METALS & CATIONS BY ICPOES

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SECTION 3 – ISO 17025 only methods		
WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses
Drinking Waters, (including Bottled Water) and Recreational Water (man made)	Colour	Spectrophotometry Method ref: COLOUR (0117519553, 1981, A3)
Drinking Waters including Bottled Waters, Recreational Water (man made) and Treated Sewage Effluent	Turbidity	Nephelometry Method ref: TURBIDITY (0117519553, 1981, B2)
Drinking Waters, (including Bottled Water) and Recreational Water (man made)	pH Alkalinity Conductivity	Instrumental Methods Method ref: pH COND ALK IN WATERS (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
Drinking Waters including Bottled Water	Ammonium Chloride Total Oxidised Nitrogen Nitrate by calculation Nitrite Ortho-Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, F) (0117515930, 1981, D) (0117515930, 1981, H) (0117515825, 1980, A)
Drinking waters and Surface Waters	Silicate	Method Ref: NUTRIENTS (0117515574, 1980, B)
Drinking Waters including Bottled Water & Recreational Waters (man made)	Total Organic Carbon Dissolved Organic Carbon	Method ref: TOC L
Drinking Waters including Bottled water, Recreational Water (man made)	Fluoride	Electrochemistry Method ref: FLUORIDE (0117516627, 1982)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	
Raw (Surface Water and Groundwater)	COD	Method ref: COD
Raw (Surface Water and Groundwater)	Total, filtered, and settled COD: Low range (5-80mg/l)	Method ref: COD Merck by Spectrophotometer
Land Leachate	Total, filtered, and settled COD: High range (25-1500mg/l)	Method ref: COD Merck by Spectrophotometer
Raw (Surface Water and Groundwater)	BOD	Method ref: BOD by BOD robot
Raw (Surface Water and Groundwater)	Suspended Solids	Method ref: Suspended Solids
Drinking waters including Bottled Water	Low level metals: Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Sulphate Tin Titanium Uranium Vanadium Zinc	Method ref: METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)



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	<u>Microbiological Tests</u>	Documented In-House Methods based on:
Recreational Waters (man made), Recreational Waters (natural)	Total Coliforms, presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Recreational Waters (man made), Recreational Waters (natural)	<i>E. coli</i> , presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Recreational Waters (man made), Recreational Waters (natural)	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012) and MoREW Part 4 (2015)
Bottled Water, Recreational Waters (man made)	Faecal Streptococci (Enterococci), confirmed - Enterolert	Method ref: E BY ENTEROLERT, MoDW Part 5 (2012) and MoREW Part 4 (2015)
Bottled Water & Recreational Waters (man made)	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2021) and MoREW Part 5 (2015)
Bottled Water, Recreational Waters (man made)	<i>Pseudomonas aeruginosa</i> , presumptive and confirmed - membrane filtration	Method ref: P AERUGINOSA BY MF. MoDW Part 8 (2015) and MoREW Part 7 (2015)
Bottled Water, Recreational Waters (man made), Recreational Waters (natural), Saline Waters	Total Viable Counts - by Pour Plate at 22 °C and 37 °C	Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)



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SALINE WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods
Saline Water	Dissolved Oxygen in mg/l and as % saturation O ₂ (by calculation)	Titrimetry Method ref: DISSOLVED OXYGEN (011751442X, 1979)
Saline Water	Suspended Solids	Gravimetry Method ref: SUSPENDED SOLIDS (011751957X, 1980)
Saline Water	pH	Method ref: pH Cond Alk in waters
Saline Water	COD	Method ref: COD
Saline Water	Turbidity	Method Ref: Turbidity



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WASTE WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Biochemical Oxygen Demand	Analysis by dissolved oxygen probe utilizing a robotic analyser Method ref: BOD (0117522120, 1988)
	Chemical Oxygen Demand	Method ref: COD (0117519154, 1986, B)
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	pHAlkalinity Conductivity	Method ref: pH COND ALK IN WASTE (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
	Alkalinity (Total) at pH 4.5 as mg/l CaCO ₃	By Calculation
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Suspended Solids and Ash	Gravimetry Method ref: SUSPENDED SOLIDS (011751957X, 1980)
Treated Sewage	Boron Phosphorus Sulphate	Method ref: METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B



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WASTE WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN
Untreated Sewage Effluent, Treated Sewage Effluent, Trade Effluent to Controlled Waters & Trade Effluents to Sewer	Total Oxidised Nitrogen	In house method NUTRIENTS using Automatic Discrete Colourmetric Analyser
Leachates (from landfill sites)	Medium Range: Ammoniacal Nitrogen Chloride Nitrite as Nitrogen Total Oxidised Nitrogen Nitrate (by calculation) Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, D) (0117516260, 1981, D) (0117515930, 1981, C) (0117515930, 1981, C) (0117515930, 1981, D) (0117515825, 1980, A)
Treated Sewage and Partially Treated Sewage	Fluoride	Method FLUORIDE by automated Ion Selective Electrode
Leachates	Total Sulphur	Method Ref: METALS & CATIONS By ICPOES
Leachates	Total and Dissolved Metals: Aluminium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Phosphorus Potassium Sodium Silver Tin Zinc	Method Ref: METALS & CATIONS By ICPOES



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS Treated and Partially Treated Sewage, Untreated Sewage, Recreational Waters (man made), Recreational Waters (natural), Raw (Surface Water and Groundwater), Saline Waters Recreational Waters (man made), Bottled water Limed Sewage Sludge Sewage Sludge, (including Composted, Limed, Digested and Raw) Raw (Surface Water and Groundwater)	<u>Microbiological Tests</u> Total Coliforms, presumptive - membrane filtration <i>E. coli</i> , presumptive - membrane filtration Faecal Streptococci (Enterococci), presumptive - membrane filtration Total Coliform and <i>E. coli</i> , confirmed – Colilert <i>Salmonella</i> spp, presumptive presence/absence <i>E. coli</i> , Presumptive- membrane filtration Identification and Enumeration of Planktonic Algae (concentration by membrane filtration and microscopic examination)	Documented In-House Methods based on: Method ref: C EC BY MF. MoREW Part 3 (2016) Method ref: E BY MF.MoREW Part 4 (2015) Method ref: TC and EC Colilert. MoDW Part 4 (2016) and MoREW Part 3 (2016) Method ref: SALM P/A IN SLUDGE. MoSS Part 4 (2004) Method ref: EC IN SLUDGE BY MF. MoSS Part 3 (2003) Method ref: ALGAL CELLS IN WATER
END OF SECTION 3		