

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: 090 Issue date: 17 April 2025 | |
| | Scientific Services Laboratory Bridge Road Countess Wear EX2 7AA | Contact: Kirsty Harris Tel: +44 (0)1392 205738 Fax: +44 (0)1392 421419 E-Mail: kharris@southwestwater.co.uk Website: www.southwestwater.co.uk |
| Testing performed by the Organisation at the locations specified | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code | |
|---|--|---|-----------|
| Address Scientific Services Laboratory Bridge Road Countess Wear Exeter EX2 7AA | Local contact Ms. K Harris Tel: +44(0)1392 205738 Email: kharris@southwestwater.co.uk | Testing: Inorganic Chemistry Organic Chemistry Microbiology | Exeter |
| Address Porthellick Laboratory Porthellick Pumping Station St Mary's TR21 0NZ | Local contact Ms. K Harris Tel: +44(0)1392 205738 Email: kharris@southwestwater.co.uk | Testing: Microbiology | St Mary's |



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[SECTION 1 Exeter – DWTS methods and ISO17025 accredited](#)

[SECTION 2 Exeter – MCERTS waters methods and ISO17025 accredited](#)

[SECTION 3 Exeter – ISO 17025 accredited only methods](#)

[SECTION 4 St Mary's Isles of Scilly – DWTS methods and ISO17025 accredited](#)



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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 EXETER - 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: INO 6 COLOUR (0117519553, 1981, A3) |
| Raw (Surface Water and Groundwater) and Drinking Waters | Turbidity | Nephelometry Method ref: INO 1 TURBIDITY (0117519553, 1981, B2) |
| Raw (Surface Water and Groundwater), Drinking Waters | pH Alkalinity at pH 4.5 Conductivity | Method ref: INO 03 PHYSICAL CHEMISTRY (SP2000 and Metrohm instrumentation) (0117514284, 1978) (0117516015, 1981) (0117514284, 1978) |
| Raw (Surface Water and Groundwater) Drinking Waters | UV Transmittance (by calculation) UV Absorbance (at 254nm) | Method ref: INO 08 UV ABS by Spec |
| Raw (Surface Water and Groundwater) and Drinking Waters | Ammonium Chloride Nitrate by calculation Nitrite Total Oxidised Nitrogen Ortho-Phosphate | Automated Colorimetric Analysis Method ref: INO 12 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: INO 12 NUTRIENTS |



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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> 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 | Method ref: INO 5 FLUORIDE by Ion Selective Electrode (0117516627, 1982) (HACH MM340) |
| Raw (Surface Water and Groundwater) and Drinking Waters | Total Organic Carbon Dissolved Organic Carbon | Method ref: INO 11 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 Calcium Cadmium Chromium Copper Iron Lead Magnesium Manganese Mercury Nickel Phosphorus Potassium Selenium Sodium Sulphate Uranium Zinc | Method MET 01 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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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| <p>WATERS (cont'd)</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Drinking Waters</p> <p>Raw (Surface Water and Groundwater & WTW influent), Treated Waters and Drinking Waters</p> | <p><u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)</p> <p>Pesticides by GC-MS including: Chlorothalonil Chlorpyrifos Cyprodinil Diazinon Dichlobenil Dieldrin Diflufenican Epoxyconazole Fenpropimorph Lindane Pendimethalin</p> <p>Taste and Odour</p> <p>Geosmin 2-methylisoborneol (MIB)</p> | <p>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</p> <p>Capillary Gas-Chromatography - Mass Spectrometry (0117513733) Method ref: ORG -02 Insecticides</p> <p>In House method ref TNO-01 TASTE AND ODOUR based on SCA "The determination of taste and odour in drinking waters (2014)" using assessed panel</p> <p>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: ORG -04 MIB GEOSMIN</p> |



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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: ORG -07 AHERB - 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 Azoxystrobin Propyzamide Boscalid Tebuconazole | Documented in house method Method ref: ORG -06 NHERBMS by LC-MSMS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|--|--|
| <p>WATERS (cont'd)</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Drinking Waters and Groundwaters</p> <p>Drinking Waters, Surface Waters and Groundwaters</p> | <p><u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)</p> <p>Trichloromethane (Chloroform)</p> <p>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</p> <p>Gross α relative to Am^{241} Gross β relative to K^{40}</p> <p>Radon 222 and Radium 226</p> <p>Tritium</p> | <p>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</p> <p>Method ref: ORG 03 VOC by headspace GCMS (Shimadzu), * Indicates also analysed on Agilent system</p> <p>Method ref: RAD-01 based on: BS ISO 9696:2007 BS ISO 9697:2008 SCA(HMSO) (01175909X, 1986)</p> <p>Method ref: RAD-03 & RAD-04</p> <p>Method ref: RAD-02</p> |



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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, <i>E coli</i> , presumptive - membrane filtration | Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016) |
| Drinking Waters, Raw (Surface Water and Groundwater) | Total Coliforms, <i>E Coli</i> confirmed - Colilert | Method ref: TC and EC Colilert. MoDW Part 4 (2016) and MoREW Part 3 (2016) |
| Drinking Waters, Raw (Surface Water and Groundwater) | Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration | Method ref: E BY MF. MoDW Part 5 (2012) and MoREW Part 4 (2015) |
| Drinking Waters and Raw (Groundwater) | Faecal Streptococci (Enterococci), confirmed - Enterolert | Method ref: E BY ENTEROLERT. MoDW Part 5 (2012) and MoREW Part 4 (2015) |
| Drinking Waters and raw (Surface Water and Groundwater) | Total Viable Counts - by Pour Plate at 22 °C and 37 °C | Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020) |
| Drinking Waters, Raw (Surface Water and Groundwater) | <i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration | Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2021) |
| Drinking Waters, Raw (Surface Water and Groundwater) | Detection and enumeration of <i>Cryptosporidium</i> oocysts | Method ref: Crypto by Filta-max xpress. MoDW Part 14 (2010) |
| Drinking Waters | <i>Pseudomonas aeruginosa</i> - Confirmed - Pseudalert | Method ref: P AERUGINOSA BY PSEUDALERT. MoDW Part 8 (2015) |

END OF SECTION 1



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---|---|---|
| SECTION 2 EXETER 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 |
| Saline Treated Sewage Effluent Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters | BOD | Analysis by dissolved oxygen probe Method ref: INO 09BOD |
| Treated Sewage Effluent, Saline treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters | Total, and settled COD: Low range (5-80mg/l) | Method ref: INO 07 COD Merck by Spectrophotometer |
| Untreated sewage effluent, Saline untreated Sewage Effluent, and Trade Effluent to Sewer and Controlled Waters | Total, and settled COD: High range (25-1500mg/l) | Method ref: INO 07 COD Merck by Spectrophotometer |
| Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters | pH | Method ref: INO 04 pH COND ALK IN WASTE by electrode |
| Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters and Saline Treated Effluents | Suspended solids | Method ref: INO 02 SUSPENDED SOLIDS |
| Treated Sewage Effluent, Saline Treated Sewage Effluent, Trade Effluent to Controlled Water, Trade Effluent to Sewer | Ammonia Nitrite | Method ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser |
| Treated Sewage Effluent, Untreated Sewage, Saline Treated Sewage, Trade Effluent to Controlled Water, Trade Effluent to Sewer | Chloride | Method ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser |



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|--|---|---|
| <p>WASTEWATERS to MCERTS (cont'd)</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Sewer</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p> | <p><u>Chemical Tests</u> (cont'd)</p> <p>Total and Dissolved Elements: Aluminium Chromium Iron Manganese Nickel Phosphorus Silver Tin</p> <p>Total & Dissolved Elements: Cadmium Copper Lead</p> <p>Total & Dissolved Elements: Zinc</p> <p>Total Elements: Calcium</p> <p>Total Elements: Potassium Magnesium Sodium Sulphur</p> | <p>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</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---|---|---|
| SECTION 3 EXETER – ISO 17025 only methods | | |
| <p>WATERS</p> <p>Recreational Water (man made)</p> <p>Recreational Water (man made) and Treated Sewage Effluent</p> <p>Drinking waters and Surface Waters</p> <p>Recreational Waters (man made)</p> <p>Recreational Water (man made)</p> <p>Raw (Surface Water and Groundwater)</p> <p>Land Leachate</p> <p>Raw (Surface Water and Groundwater)</p> | <p align="center"><u>Chemical and Physical Tests</u></p> <p>Colour</p> <p>Turbidity</p> <p>Silicate</p> <p>Total Organic Carbon Dissolved Organic Carbon</p> <p>Fluoride</p> <p>Total, and settled COD: Low range (5-80mg/l)</p> <p>Total, and settled COD: High range (25-1500mg/l)</p> <p>BOD</p> | <p>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</p> <p>Spectrophotometry Method ref: INO 06 COLOUR (0117519553, 1981, A3)</p> <p>Nephelometry Method ref: INO 01TURBIDITY (0117519553, 1981, B2)</p> <p>Method Ref:INO 12 NUTRIENTS (0117515574, 1980, B)</p> <p>Method ref: INO 11TOC L</p> <p>Electrochemistry Method ref: INO 05 FLUORIDE (0117516627, 1982)</p> <p>Method ref: INO 07 COD Merck by Spectrophotometer</p> <p>Method ref: INO 07 COD Merck by Spectrophotometer</p> <p>Method ref: INO 09 BOD by BOD robot</p> |



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|-------------------------------------|--|--|
| WATERS (cont'd) | <u>Chemical and Physical Tests</u> (cont'd) | |
| Raw (Surface Water and Groundwater) | Suspended Solids | Method ref: Suspended Solids |
| 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: INO 10 DISSOLVED OXYGEN (011751442X, 1979) |
| Saline Water | Suspended Solids | Gravimetry Method ref: INO 02 SUSPENDE SOLIDS (011751957X, 1980) |
| Saline Water | Turbidity | Method Ref: INO 01 Turbidity |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|--|
| | <u>Microbiological Tests</u> | Documented In-House Methods based on: |
| Recreational Waters (man made), Recreational Waters (natural) | Total Coliforms, <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) | Total Coliforms and <i>E. Coli</i> , Confirmed - Colilert | Method ref: TC & EC Colilert, MoDW Part 4 (2016) & 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) |
| Recreational Waters (man made) | Faecal Streptococci (Enterococci), confirmed - Enterolert | Method ref: E BY ENTEROLERT, MoDW Part 5 (2012) and MoREW Part 4 (2015) |
| 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) |
| 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) |
| Recreational Waters (man-made) | <i>Pseudomonas aeruginosa</i> , Confirmed - Pseudalert | Method ref: P AERUGINOSA BY PSEUDALERT MoERW Part 7 |
| Raw (Surface Water and Groundwater) | Identification and Enumeration of Planktonic Algae (concentration by membrane filtration and microscopic examination) | Method ref: ALGAL CELLS IN WATER Method reference: Enumeration and Identification of Algae (2024) |



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|--|---|--|
| <p>WASTE WATERS</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites) -</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)</p> <p>Treated Sewage, Trade Effluent to Controlled Waters, Trade Effluent to Sewer, Landfill Leachate</p> <p>Landfill Leachate</p> | <p><u>Chemical and Physical Tests</u></p> <p>Biochemical Oxygen Demand</p> <p>Chemical Oxygen Demand</p> <p>pH, Alkalinity, Conductivity</p> <p>Alkalinity (Total) at pH 4.5 as mg/l CaCO₃</p> <p>Suspended Solids and</p> <p>Total Oxidised Nitrogen</p> <p>Ammonia</p> | <p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN</p> <p>Analysis by dissolved oxygen probe utilizing a robotic analyser Method ref: INO 09 BOD (0117522120, 1988)</p> <p>Method ref: INO 07 COD (0117519154, 1986, B)</p> <p>Method ref: INO 04 pH COND ALK IN WASTE (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)</p> <p>By Calculation</p> <p>Gravimetry Method ref: INO 02 SUSPENDED SOLIDS (011751957X, 1980)</p> <p>Method Ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser</p> <p>Method Ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser</p> |



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|----------------------------|--|--|
| LEACHATES Leachates | <u>Chemical and Physical Tests</u> Total and Dissolved Metals: Silver Tin | Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN Method Ref: MET 02 METALS & CATIONS By ICPOES |



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| <p>WATERS (cont'd)</p> <p>Treated and Partially Treated Sewage, Untreated Sewage, Saline Waters</p> <p>Limed Sewage Sludge</p> <p>Sewage Sludge, (including Composted, Limed, Digested and Raw)</p> | <p><u>Microbiological Tests</u></p> <p>Total Coliforms & <i>E. coli</i>, presumptive - membrane filtration</p> <p>Faecal Streptococci (Enterococci), presumptive - membrane filtration</p> <p><i>Salmonella</i> spp, presumptive presence/absence</p> <p><i>E. coli</i>, Presumptive- membrane filtration</p> | <p>Documented In-House Methods based on:</p> <p>Method ref: C EC BY MF. MoREW Part 3 (2016)</p> <p>Method ref: E BY MF. MoREW Part 4 (2014)</p> <p>Method ref: SALM P/A IN SLUDGE. MoSS Part 4 (2004)</p> <p>Method ref: EC IN SLUDGE BY MF. MoSS Part 3 (2024)</p> |

END OF SECTION 3

