


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1565</b> Accredited to ISO/IEC 17025:2017	<b>Scottish Water</b>	
	Issue No: 115 Issue date: 29 May 2026	
	<b>Juniper House</b> Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	<b>Quality Manager: Susan Lee / Louise Szymanski</b> <b>E-Mail: scientific@scottishwater.co.uk</b> <b>Tel: 0845 601 8855 (requesting Scientific Services Customer Management Team)</b>
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
<b>Address</b> Juniper House Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	<b>Local contact</b> E-Mail: scientific@scottishwater.co.uk	<b>Testing:</b> Microbiological Cryptosporidia Chemical	E
Inverness laboratory 31 Henderson drive Longman North Inverness IV1 1TR	E-Mail: scientific@scottishwater.co.uk	<b>Testing:</b> Microbiological Cryptosporidia Chemical	I



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

Sampling Region (see <a href="#">Appendix A</a> for details of sampling depots accredited activities for each location)		Activity	Location code
Region	Local contact		
North Region	Calum Watson: Clean Water Allan Kinvig: Waste Water	<b>Sampling:</b> Sampling of water for subsequent chemical, microbiological and cryptosporidium testing  <b>On-Site Testing:</b> Chemical	N
South Region	Gordon Ferrier: Clean Water Allan Kinvig: Waste Water	<b>Sampling:</b> Sampling of water for subsequent chemical, microbiological and cryptosporidium testing  <b>On-Site Testing:</b> Chemical	S

**This schedule is ordered as follows:**

**[Section 1](#)**

Testing (Fixed Scope)

**[Section 2](#)**

Testing (Flexible Scope)

**[Section 3](#)**

SEPA MACs scheme

**[Section 4](#)**

Sampling and On-site Testing

**[Appendix A](#)**

Sampling Depot Location



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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 - Testing (Fixed Scope)</b>			
WATERS Raw and potable	<u>Chemical Tests and Physical Tests</u>  Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	Documented In-house Procedures identified by a Method Code based on/ incorporating published procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials' (MEWAM), referenced by the ISBN number and year. Alternative references are also identified if appropriate.	
Raw and potable	Alkalinity	IC 078	E
Raw and potable	Colour	IC 062 by SEAL autoanalyzer	E, I
Raw and potable	Colour	IN 32 Manual	I
Raw and potable	Conductivity @ 20°C	IC 062 by SEAL autoanalyzer	E, I
Raw and potable	Conductivity @ 20°C	IN 38 Manual	I
Raw and potable	Colour	IC 002 by Spectrophotometer (manual)	E



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
Raw and potable	Oxidised Nitrogen Phosphate (soluble reactive) Chloride Ammonia Nitrate [Oxidised Nitrogen (IC009) - Nitrite (IC009)] Nitrite	IC 009 by colorimetry (discrete analyser)	E
Raw and potable	pH	IC 062 by SEAL autoanalyzer	E, I
Raw and potable	pH	IN 37 Manual	I
Raw and potable	Total Organic Carbon	D 45.1 (TOC Analyser)	E
Raw and potable	Turbidity	IC 062 by SEAL autoanalyzer	E, I
Raw and potable	Turbidity	IN 33 Manual	I
Raw and potable	Aluminium Copper Iron Lead Manganese Antimony Arsenic Cadmium Chromium Nickel Phosphorus Selenium Zinc Uranium	GIC 001 by ICPMS	E



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
	Metals: Iron Manganese Aluminium	ICP-OES 1 - Using ICP-OES	E
	Bromate Bromide Chlorate Chlorite Fluoride	O 019 Determination of Anions in Raw and Potable Water by Ion Chromatography	E
Raw, potable waters	Total Cyanide	IC 008 by auto analyser	E
Raw and potable	Metals: Calcium Sodium Magnesium Potassium Barium Boron Sulphate Total Hardness (calculation)	ICP-OES 2 - Using ICP-OES	E
	Metals: Mercury	ICP-MS 1 - Using ICP-MS	E



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	Polycyclic or Polynuclear Aromatic Hydrocarbons: Benzo-a-pyrene Benzo-b-fluoranthene Benzo-ghi-perylene Benzo-k-fluoranthene Indeno (1,2,3 cd pyrene) Total polycyclic aromatic hydrocarbons	O 048 by HPLC with Fluorescence Detection	E
Raw and Potable Waters	Bifenthrin cis-Permethrin trans-Permethrin Permethrin total Cypermethrin Lindane (g-HCH) Heptachlor Chlorpyrifos Aldrin Heptachlor exo epoxide Heptachlor endo epoxide Heptachlor epoxide Dieldrin a-HCH Fenitrothion Malathion Pendimethalin Chlorfenvinphos	O 047 by GCMSMS	E
Raw and Potable Waters	Anisole 2-EED (2-Ethyl-5,5-dimethyl-1,3-dioxane) 2-IPMP (2-Isopropyl-3-methoxypyrazine) TCA (2,4,6-Trichloroanisole) Geosmin TBA (2,4,6-Tribromoanisole)	Method O057 Dispersive Liquid-Liquid Micro-Extraction (DILLME) GCMSMS	E



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
Raw and Potable Waters	Microcystin RR Microcystin YR Microcystin LR	O 054 by Direct Injection LCMSMS	E
	Determination of Pesticides, Herbicides and Fungicides: Atrazine Azoxystrobin Boscalid Carbendazim Carbetamide Chlorotoluron Chloroxuron Cyproconazole Cyprodinil Diazinon Dimethoate Diuron Epoconazole Florasulam Flufenacet Isoproturon Linuron Metaldehyde Metazachlor Metoxuron Monolinuron Monuron Penthiopyrad Propachlor Propazine Propetamphos Propiconazole Propyzamide Prosulfocarb	O 043 by LCMSMS Triple Quad	E



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
	Prothioconazole Quinmerac Simazine Tebuconazole Trietazine Trinexapac-ethyl	O 043 by LCMSMS Triple Quad (continued)	E
	2,4-D 2,4-DB Clopyralid Dicamba Dichlorprop Fluroxpyr MCPA MCPB Mecoprop Picloram Trichlopyr Asulam Bentazone Bromoxynil Fluzilazole Ioxynil Isopyrazam Methiocarb Carbofuran Metamitron Metribuzin Terbuthylazine	O 044 by LCMS Triple Quad	E
Raw (Surface and Ground waters) and Potable waters	Mesosulfuron- methyl Thifensulfuron-methyl	O 049 by direct injection LCMS/MS	E



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<p>WATERS Raw and potable (cont'd)</p> <p>Raw (Surface and Ground waters) and Potable waters</p>	<p><u>Chemical Tests and Physical Tests (cont'd)</u></p> <p>Phenolic compounds Phenol 2-Methylphenol 3-Methylphenol 4-Methylphenol 2-Chlorophenol 2,5-Dimethylphenol 2,4-Dimethylphenol 4-Chlorophenol 3,5-Dimethylphenol 3-Bromophenol 2-Bromophenol 4-Bromophenol 4-Chloro-3-methylphenol 2,4 &amp; 2-6-Dichlorophenol 4-t-Butylphenol 2-Chloro 4-Bromophenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-chloro-p-tert Butylphenol 2,4 -Dibromophenol 2-6-Dibromophenol 2-Bromo-4,6-Dichlorophenol 2-Bromo-p-tert- Butylphenol 2,3,4,6 Tetrachlorophenol 2,6 Dibromo-4-Chlorophenol 2,4,6-Tribromophenol Pentachlorophenol 2,3,4,6- Tetrabromophenol</p>	<p>Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification DWTS)</p> <p>O 050 by derivatisation, solvent extraction and GCMS</p>	E
<p>Raw (Surface and Ground waters) and Potable waters</p>	<p>Bisphenol A</p>	<p>O 059 by GCMSMS</p>	E



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification DWTS)	
Raw and potable Waters	Haloacetic acids: Monochloroacetic acid Monobromoacetic acid Dichloroacetic acid Trichloroacetic acid Bromochloroacetic acid Dibromoacetic acid Bromodichloroacetic Acid Chlorodibromoacetic Acid Tribromoacetic Acid HAA 5 - total HAA 9 - total	O 055 by LC MSMS analysis	E
	Chloroform 1,2-Dichloroethane Tetrachloromethane Benzene Trichloroethene Bromodichloromethane Toluene Dibromochloromethane Tetrachloroethene Ethylbenzene M&p- Xylene Bromoform o-Xylene Sum of Tetra and Trichloroethene by calculation Total THM by calculation	O 042 by GCMS	E
	Taste and Odour (Qualitative and Quantitative)	D 58 based on SCA Blue Book The determination of Taste and Odour in drinking water 2014	E, I



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
Raw and potable Waters	Poly and Perfluoroalkyl Substances (PFAS): Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPA) Perfluorobutane sulfonic acid (PFBS) PFMOBA (Cas No. 863090-89-5) PFEESA (Cas No. 113507-82-7) NFDHA (Cas No. 151772-58-6) ) 4:2 FTSA (Cas No. 757124-72-4) Perfluorohexanoic acid (PFHxA) Perfluoropentane sulfonic acid (PFPS) HFPO-DA (Gen X) (Cas No. 13252-14-6) FBSA (Cas No. 30334-69-1) Perfluoroheptanoic acid (PFHpA) Perfluorohexane sulfonic acid (PFHxS) DONA (Cas No. 91905-14-4) 5:3 FTCA (Cas No. 914637-49-3) PFecHS (Cas No. 133201-07-7) Perfluorooctanoic acid (PFOA) Perfluoroheptane sulfonate (PFHpS) FHxSA (Cas No. 41997-13-1) Perfluorooctane sulfonate (PFOS) Perfluorononanoic acid (PFNA)	O 058 by Solid Phase Extraction and LC-MS/MS	E



1565  
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<p>WATERS Raw and potable (cont'd)</p>	<p><u>Chemical Tests and Physical Tests (cont'd)</u></p> <p>Poly and Perfluoroalkyl Substances (PFAS) (cont'd): 7:3 FTCA (Cas No. 812-70-4) HFPO-TA (Cas No. 13252-14-7) 9CI-PF3ONS (Cas No. 756426-58-1) Perfluorononane sulfonic acid (PFNS) 8:2 FTSA (Cas No. 39108-34-4) Perfluorodecanoic acid (PFDA) MeFOSAA (Cas No. 2355-31-9) Perfluorodecane sulfonate (PFDS)</p> <p>Perfluoroundecanoic acid (PFUnDA) EtFOSAA (Cas No. 2991-50-6) 11CI-PF3ONS (Cas No. 763051-92-9) Perfluoroundecane sulfonic acid (PFUnDS) Perfluorododecanoic acid (PFDoDA) Perfluorododecane sulfonic acid (PFSoS) (PFDoS) Perfluorotridecanoic acid (PFTrDA) N-MeFOSA (Cas No. 31506-32-8) MeFOSE (Cas No. 24448-09-7) Perfluorotridecane sulfonic acid (PFTrDS) PFTeA (Cas No. 376-06-7) EtFOSA (Cas No. 4151-50-2)</p>	<p>Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)</p> <p>O 058 by Solid Phase Extraction and LC-MS/MS (cont'd)</p>	<p>E</p>



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364) as amended. The testing is in accordance with the Drinking Water Testing Specification (DWTS)	
	Poly and Perfluoroalkyl Substances (PFAS) (cont'd): PFHxDA (Cas No. 67905-19-5) Sum of PFAS	O 058 by Solid Phase Extraction and LC-MS/MS (cont'd)	E
	<u>Radiochemical Tests</u>		
	Screening for: Gross Alpha levels (relative to Am <sup>241</sup> ) Gross Beta levels (relative to K <sup>40</sup> )	RAD-1 by proportional counting	E
	Tritium (H <sup>3</sup> )	RAD-2 by distillation and liquid scintillation counting	E
	Radon (range 10-200Bq/l)	RAD-3 by liquid scintillation counting based on ISO 13164-4: 2015	E



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WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>	Documented in house methods	
Raw and Potable waters	Solids: Suspended	IC 074	E
Raw water only	Biochemical Oxygen Demand	IC 075A using automated system	E
Raw and Potable waters	Total Dissolved Solids	D 40	E
Raw waters	Chemical Oxygen Demand (Total and Soluble) Low Range	Method IC071 by colorimetric sealed tube	E
Recreational Waters (Swimming Pools)	Turbidity	IC 062 by Seal Autoanalyser	E, I
	Colour	IC 002 by Spectrophotometer (manual)	E
	pH	IC 062 by Seal Autoanalyser	E, I
	Colour	IC 062 by Seal Autoanalyser	E, I
	Conductivity	IC 062 by Seal Autoanalyser	E, I
Recreational Waters (Swimming Pools)	Turbidity	IN 33 Manual	I
	pH	IN 37 Manual	I
	Colour	IN 32 Manual	I
	Conductivity @ 20°C	IN 38 Manual	I
Recreational Waters (Swimming Pools)	Oxidised Nitrogen Phosphate (soluble reactive) Chloride Ammonia Nitrate [Oxidised Nitrogen (IC009) - Nitrite (IC009)] Nitrite	IC 009 by colorimetry (discrete analyser)	E



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WATERS	<u>Chemical Tests and Physical Tests (cont'd)</u>	Documented in house methods	
Recreational Waters (Swimming Pools)	Total Dissolved Solids	D 40 by gravimetric determination	E
	Total Organic Carbon	D 45.1 (TOC Analyser)	E
WASTEWATERS			
Untreated and treated domestic and industrial wastewaters	<u>Total Petroleum Hydrocarbons:</u> C <sub>8</sub> - C <sub>40</sub> ,	O 031 by Hexane extraction and GC-FID	E
Final Sewage effluent, Crude Sewage effluent and Trade Effluent	Fluoride Sulphate	Method O030 by ion chromatography	E
Untreated and treated domestic and industrial wastewaters, landfill leachates	Chemical Oxygen Demand	IC 071	E
Final effluent, crude sewage (untreated sewage influent), landfill leachate	Chemical Oxygen Demand (Settled and Soluble)	Method IC072 by colorimetric sealed tube and auto analyser	E
Untreated and treated domestic and industrial wastewaters, landfill leachates	Biochemical Oxygen Demand	IC 075A BS EN 1899:Parts 1 and 2:1998	E
Untreated and treated domestic and industrial wastewaters, landfill leachates	pH	IC 073	E
Untreated and treated domestic and industrial wastewaters, landfill leachates	Solvent extractable material	O 028	E
Trade Effluents	Total Cyanide	IC 008 by auto analyser	E



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WASTEWATERS (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Documented in house methods	
Final effluent, Crude sewage, Trade effluent and Landfill Leachates	Metals: Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Phosphorus Sodium Sulphur Selenium Zinc Aluminium Arsenic	IC 036 by ICPOES	E
Domestic and industrial wastewaters and landfill leachates	Chloride Nitrite Nitrate (by calculation) Total Oxidised Nitrogen (TON) Ammonia Phosphate (Soluble Reactive)	GIC 007 by colorimetry (discrete analyser)	E
WASTEWATERS Untreated and treated domestic and industrial wastewaters	Alkalinity	IC 078 by titrimetry	E
WASTEWATERS Untreated and treated domestic and industrial wastewaters and landfill leachates	pH	IC 078 by automated pH meter	E



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WASTEWATERS (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u>	Documented in house methods	
WASTEWATERS Untreated and treated domestic and industrial wastewaters, landfill leachates	Suspended Solids	IC 074 Gravimetric determination	E
Raw water (surface water)	Phosphorus	ICPMS5 using ICPMS	E
Final sewage effluent only	Ammonia TON Nitrate Phosphate (Soluble Reactive)	IC 009 (LR) by colorimetry	E
Final sewage effluent only	Total Organic Carbon	D 45.1 (TOC Analyser)	E
Crude sewage, final effluent and trade effluent	Anionic Surfactants (MBAS)	IC 006 by continuous flow analyser	E
SEWAGE SLUDGES	pH	IC 081	E
Sludge matrices	Dried Solids	IC 082	E



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WATERS Drinking Water, Raw waters (Ground and Surface)	<u>Microbiological Tests</u>		
	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364). The testing is in accordance with the Drinking Water Testing Specification (DWTS).	Documented In-house procedures based on 'The Microbiology of Drinking Water (MODW)	
	Isolation and enumeration of: - Heterotrophic bacteria at 37°C & 22°C	Method MD 03 by pour plate based on MODW Part 7 (2020)	E, I
	Enterococci (presumptive and confirmed)	Method MD 04 by membrane filtration based on MODW part 5 (2012)	E, I
	<i>Clostridium perfringens</i> (presumptive and confirmed)	Method MD 05 by membrane filtration based on MODW Part 6 (2021)	E, I
	Total Coliforms (confirmed) <i>E. coli</i> (confirmed)	Method MD 07 Most Probable Number using Colilert 18 based on MODW part 4 (2016)	E, I
	<i>E. coli</i> (confirmed) <i>E. coli</i> (presumptive)	Method MD 08 using MLGA by membrane filtration based on MODW part 4 (2016)	E, I
	Coliform bacteria (confirmed) Coliform bacteria (presumptive)	Method MD 08 using MLGA by membrane filtration based on MODW part 4 (2016)	E, I
Detection and enumeration of <i>Cryptosporidium</i> oocysts	Method MP 18 based on MODW Part 14 (2010) using Filtamax Xpress wash station, concentration, immunomagnetic separation and microscopy	E, I	
Drinking water, Raw waters (Ground and Surface)	Detection and enumeration of Somatic Coliphages	Method MD16	E, I



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BIOLOGICAL TEST MATERIAL ISOLATES	<u>Microbiological Tests</u> (cont'd)		
	Testing for the purpose of enforcement of the Public Water Supplies (Scotland) Regulations 2014 (SI 364). The testing is in accordance with the Drinking Water Testing Specification (DWTS).	Documented In-house procedures based on 'The Microbiology of Drinking Water (MODW)	
Bacterial isolates from the testing of Raw and Drinking water using method MD 08	Identification of Coliforms and <i>E. coli</i>	Method MD17 using MALDI-TOF	E, I
Bacterial isolates from the testing of Raw and Drinking water using method MD 04	Identification of Enterococci	Method MD17 using MALDI-TOF	E, I
Bacterial isolates from the testing of Raw and Drinking water using method MD 05	Identification of <i>Clostridium perfringens</i>	Method MD17 using MALDI-TOF	E, I
	<u>Molecular Tests</u>		
Light microscopy slides with identified Cryptosporidia oocysts	<i>Cryptosporidium</i> Genotype Determination	AM 23 - Using PCR-DNA sequencing or PCR-RFLP (Polymerase chain reaction restriction fragment length polymorphism)	E



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**Schedule of Accreditation**  
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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**

**Issue No: 115 Issue date: 29 May 2026**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (non regulatory)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Procedures based on "The microbiology of Drinking Water (MODW)	
RECREATIONAL WATERS (Swimming Pools)	Isolation and enumeration of:  Heterotrophic bacteria at 37°C & 22°C	Method MD 03 by pour plate based on MODW Part 7 (2020)	E, I
	<i>E. coli</i> (confirmed) <i>E. coli</i> (presumptive)	Method MD 08 using MLGA by membrane filtration based on MODW Part 4 (2016)	E, I
	<i>Pseudomonas aeruginosa</i> (presumptive and confirmed)	Method MW 09 using membrane filtration based on MODW Part 8 (2015)	E, I
	Detection and enumeration of <i>Cryptosporidium</i> oocysts	Method MP 18 based on MODW Part 14 (2010) using Filtamax Xpress wash station, concentration, immunomagnetic separation and microscopy	E
Bacterial isolates from the testing of recreational waters (swimming pools) using method MD08	Identification of Coliforms and <i>E. coli</i>	Method MD17 using MALDI-TOF	E, I
Bacterial isolates from the testing of recreational waters (swimming pools) using method MW 09	Identification of <i>Pseudomonas aeruginosa</i>	Method MD17 using MALDI-TOF	E, I
WASTEWATERS Treated Sewage Effluent	Total Coliforms (confirmed) <i>E. coli</i> (confirmed)	Method MD 07 Most Probable Number using Colilert 18 based on MODW Part 4 (2016)	E, I

END of Section 1



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

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

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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 – Testing (Flexible Scope)</b>			
<b>AQUEOUS MATRICES</b> <b>Various aqueous matrices as included in section 1 and 3 of the schedule</b>	<u><b>Chemical Tests</b></u>  Determinands listed in section 1 and 3 of the schedule, and addition of new unspecified chemical determinands and additional and replacement equipment	Documented in-house methods using existing extraction and measurement principles included in section 1 and 3 of this schedule, developed under generic in-house flexible scope protocol procedure 12.6	E, I
END of Section 2			



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**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>Section 3 – Testing SEPA MACS scheme</b>			
WASTEWATERS to SEPA MACs scheme	<u>Chemical Tests</u>	Documented In-House Method to meet the requirements of the SEPA MACS Standard – sampling and chemical testing of water	
Crude Sewage (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	Biochemical Oxygen Demand (Total and Soluble)	Method IC075A using automated system	E
Crude Sewage (untreated sewage influent) Trade effluent	Chemical Oxygen Demand (Total and Soluble) High Range	Method IC071 by colorimetric sealed tube	E
Final effluent (treated sewage effluent)	Chemical Oxygen Demand (Total and Soluble) Low Range	Method IC071 by colorimetric sealed tube	E
Crude Sewage (untreated sewage influent)	Chemical Oxygen Demand (Settled and Soluble)	Method IC072 by colorimetric sealed tube and auto analyser	E
Crude Sewage (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	Suspended solids	Method IC074 by Gravimetric determination	E
Crude effluent (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	pH	Method IC073 (manual) by probe	E
Crude effluent (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	pH	pH Method IC078 (automated pH meter)	E



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**Schedule of Accreditation**  
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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**

**Issue No: 115 Issue date: 29 May 2026**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WASTEWATERS to SEPA MACs scheme (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the SEPA MACS Standard – sampling and chemical testing of water	
Final effluent (treated sewage effluent)	Ammonia TON Nitrate Phosphate (Soluble Reactive)	Method IC009 (LR) using discrete analyser	E
Crude effluent (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	<u>Nutrients:</u> Chloride Total Oxidised Nitrogen (TON) Ammonia +TON (calculated determinand) Nitrite Nitrate (calculation from TON and nitrite) Ammonia Phosphate	Method GIC007 by colorimetry (discrete analyser).	E
Crude effluent (untreated sewage influent) Final effluent (treated sewage effluent) Trade effluent	Total Nitrogen	Method IC068 by combustion analyser	E
Final effluent (treated sewage effluent), Crude effluent (untreated sewage influent) & Trade effluent	Fluoride	Method O030 by Ion Chromatography with conductivity detection	E
Crude effluent (untreated sewage influent) Final effluent (treated sewage effluent) and trade effluent	Total Petroleum Hydrocarbons: C8-C40	Method O031 by Hexane extraction and GC-FID	E
Final Effluent and Crude Sewage	Dichloromethane Chloroform	Method O052 by Headspace GCMS	E



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**Schedule of Accreditation**  
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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**

**Issue No: 115 Issue date: 29 May 2026**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WASTEWATERS to SEPA MACs scheme (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the SEPA MACS Standard – sampling and chemical testing of water (cont'd)	
Final effluent (treated sewage effluent)	Metals (total and dissolved) Aluminium Arsenic Cadmium Chromium Copper Iron Lead Manganese Nickel Phosphorus Zinc	Method ICPMS5 using ICPMS	E
Crude (Untreated) Sewage, Final (Treated) Sewage Effluent, Trade Effluent	Organochlorine, Organophosphorus Pesticides and Pyrethroids: Bifenthrin Cis-Permethrin Trans-Permethrin Permethrin – all isomers Cyfluthrin Cypermethrin Gamma-HCH (Lindane) Propetamphos Diazinon Fenitrothion Malathion Chlorfenvinphos	Method O051 by GC MS/MS	E
Waste water: Crude (Untreated) Sewage Effluent, Final (Treated) Sewage Effluent, Trade Effluent	<u>Sampling</u> Sampling of wastewater for subsequent chemical testing	Spot sampling using a documented in-house method (for automatic samplers, accreditation covers either taking of samples from the container within the sampler or transfer of samples taken in manual mode to appropriate containers)	N, S



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ISO/IEC 17025:2017

**Schedule of Accreditation**  
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**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WASTEWATERS to SEPA MACs scheme (cont'd)</p> <p>Final Effluent and Crude Sewage</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Metals: Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Phosphorus Sodium Sulphur Selenium Zinc Aluminium Arsenic</p>	<p>Documented In-House Method to meet the requirements of the SEPA MACS Standard – sampling and chemical testing of water (cont'd)</p> <p>IC 036 by ICPOES</p>	E

END of Section 3



1565  
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ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>Section 4 - SAMPLING AND ON-SITE TESTING:</b>			
See <a href="#">Appendix A</a> of this schedule for details of sampling and on-site testing accredited for each site			
WASTEWATER: Untreated Sewage Treated Sewage Effluent Trade Effluent	<u>Sampling</u>  Sampling of wastewater for subsequent chemical testing	Spot sampling using a documented in-house method (for automatic samplers, accreditation covers either taking of samples from the container within the sampler or transfer of samples taken in manual mode to appropriate containers)	N, S
WATER TREATMENT WORKS: Raw and Potable Water Sources	Sampling for the purpose of enforcement of the Water Quality (Scotland) Regulations 2014 (SI 364) as amended.  <u>Sampling</u>	Methodology meeting the requirements of the Drinking Water Testing Specification	
Raw and Potable Water Sources	Sampling of water for subsequent chemical, microbiological and (cryptosporidium testing on potable water only)	Documented In-House Method Water Quality Sampling Manual	N, S
RESERVOIRS: Sampling taps	<u>On-site Testing</u> Free residual chlorine Total residual chlorine	Documented In-House Method S01 using HACH Colorimeters	N, S
HOUSEHOLD and INDUSTRIAL: Potable water taps BOREHOLES: Sampling taps			
END			



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**Schedule of Accreditation**  
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**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

Testing performed by the Organisation at the locations specified

**Appendix A**  
**Sampling Office / Depot Locations**

✓ denotes sampling accredited where carried out by Scottish Water Scientific Services staff

Office / Depot	Address	Waste Water	Raw and Potable Water			
		Sampling for subsequent chemistry testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
<b>North Region</b>						
<b>Aberdeen Area Office</b>	Kingshill House Arnhall Business Park Westhill Aberdeen AB32 6UF		✓	✓	✓	✓
<b>Fort William Area Office</b>	Carrs Corner Lochy Bridge Fort William PH33 6TQ	✓	✓	✓	✓	✓
<b>Ullapool Area Office</b>	Morefield Industrial Estate Ullapool IV26 2SR		✓	✓	✓	✓
<b>Inverness Area Office</b>	31 Henderson Drive Longman North Inverness IV1 1TR	✓	✓	✓	✓	✓
<b>Dornoch Depot</b>	Shore Road Dornoch IV25 3LS		✓	✓	✓	✓
<b>Broadford Depot</b>	Old Corrie Industrial Estate Broadford Isle of Skye IV49 9AB		✓	✓	✓	✓



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

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

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Office / Depot	Address	Waste Water	Raw and Potable Water			
		Sampling for subsequent chemistry testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
<b>North Region (cont'd)</b>						
<b>Turriff Depot</b>	Turriff Water Treatment Works Shandscross Turriff Aberdeenshire AB53 7PL	✓	✓	✓	✓	✓
<b>Lerwick</b> Shetland Central Depot covering accredited sampling on the following islands;  Unst, Yell, Fetlar, Whalsay, Papa Stour	Duncan House Upper Sound Lerwick Shetland ZE1 0SU	✓  Shetland Mainland only	✓	✓	✓	✓
<b>Stornoway</b>	Stornoway Waterworks Barvas Road Newmarket Stornoway HS2 0SD	✓	✓	✓	✓	✓
<b>Ardrishaig</b>	Ardrishaig WTW Glengilp Road Ardrishaig by Lockgilphead Argyll PA30 8HF	✓	✓	✓	✓	✓
<b>Oban</b>	Tullich Soroba Oban Argyll PA34 4SB		✓	✓	✓	✓



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

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

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Office / Depot	Address	Waste Water	Raw and Potable Water			
		Sampling for subsequent chemistry testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
<b>North Region (cont'd)</b>						
<b>Isle of Islay</b> Inner Hebrides Central Depot covering accredited sampling on the following islands;  Islay, Jura, Coll, Colonsay, Tiree, Gigha	Torra WTW High Road Port Ellen Isle of Islay Argyll		✓	✓		✓
<b>Orkney Area Office, Kirkwall</b> Orkney Central Depot covering accredited sampling on the following islands;  Ronaldsay, Westray, Sanday, Eday, Stronsay, Rousay, Shapinsay, Hoy, Flotta	Seafire Road Kirkwall Orkney KW15 1WL		✓	✓	✓  Kirkwall Only	✓
<b>Halkirk</b>	Calder WTW Halkirk KW12		✓	✓	✓	✓
<b>Elgin Office</b>	Moycroft Road Elgin IV30 1XE		✓	✓	✓	✓
<b>Benbecula Office and Depot</b>	Market Stance Western Isles HS7 5LT	✓	✓	✓	✓	✓



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

**Scottish Water**  
**Issue No: 115 Issue date: 29 May 2026**

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Office / Depot	Address	Waste Water	Raw and Potable Water			
		Sampling for subsequent chemistry testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
<b>South Region</b>						
<b>Edinburgh</b>	Juniper House Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	✓	✓	✓	✓	✓
<b>Galafoot Office</b>	Winston Road Galashiels Selkirkshire TD1 3HH	✓	✓	✓	✓	✓
<b>Stirling</b>	Forth House Munro Road Springkerse Stirling FK7 7XC	✓	✓	✓	✓	✓
<b>Glasgow Sampling Depot</b>	Buchanan Gate Business Park Cumbernauld Road Stepps G33 6FB	✓	✓	✓	✓	✓
<b>Region Office, Dumfries</b>	Marchmont House Dumfries DG1 1PW	✓	✓	✓	✓	✓
<b>Dundee Depot</b>	Bullion House Mill Road Invergowrie Dundee DD2 5BB		✓	✓	✓	✓