


Schedule of Accreditation

issued by

United Kingdom Accreditation Service


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

 1565 Accredited to ISO/IEC 17025:2017	Scottish Water	
	Issue No: 110 Issue date: 18 October 2024	
	Juniper House Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	Quality Manager: Peter Jones / Louise Szymanski E-Mail: scientific@scottishwater.co.uk Tel: 0845 601 8855 (requesting Scientific Services Customer Management Team)
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
Address Juniper House Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	Local contact E-Mail: scientific@scottishwater.co.uk	Testing: Microbiological Cryptosporidia Chemical	E
Inverness laboratory 31 Henderson drive Longman North Inverness IV1 1TR	E-Mail: scientific@scottishwater.co.uk	Testing: Microbiological Cryptosporidia Chemical	I

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<p style="text-align: center;">Testing performed by the Organisation at the locations specified</p>	

Site activities performed away from the locations listed above:

Sampling Region (see Appendix 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	<p>Sampling:</p> <p>Sampling of water for subsequent chemical, microbiological and cryptosporidium testing</p> <p>On-Site Testing: Chemical</p>	N
South Region	Gordon Ferrier: Clean Water Allan Kinvig: Waste Water	<p>Sampling:</p> <p>Sampling of water for subsequent chemical, microbiological and cryptosporidium testing</p> <p>On-Site Testing: Chemical</p>	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
Section 1 - Testing (Fixed Scope)			
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



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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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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)	
	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) 2-MIB (2-Methylisoborneol) 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 Epoxiconazole 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 Isoprazam Methiocarb Carbofuran Metamitron Metribuzin Terbuthylazine	O 044 by LCMS Triple Quad	E
Raw (Surface and Ground waters) and Potable waters	Metsulfuron-methyl Thifensulfuron-methyl Tribenuron- methyl Pirimicarb Mesosulfuron- methyl S-Metolachlor Bixafen	O 049 by direct injection LCMS/MS	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 (Surface and Ground waters) and Potable waters	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 & 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	O 050 by derivatisation, solvent extraction and GCMS	E
Raw (Surface and Ground waters) and Potable waters	Bisphenol A	O 059 by GCMSMS	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) PFEEESA (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



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WATERS Raw and potable (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u> 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) 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)	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) O 058 by Solid Phase Extraction and LC-MS/MS (cont'd)	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)	
	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 ²⁴¹) Gross Beta levels (relative to K ⁴⁰)	RAD-1 by proportional counting	E
	Tritium (H ³)	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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	<u>Chemical Tests and Physical Tests</u>		
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 and Potable 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
	pH	IC 062 by Seal Autoanalyzer	E, I
	Colour	IC 062 by Seal Autoanalyzer	E, I
	Conductivity	IC 062 by Seal Autoanalyzer	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
Recreational Waters (Swimming Pools)	Total Dissolved Solids	D 40 by gravimetric determination	E
	Total Organic Carbon	D 45.1 (TOC Analyser)	E



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WASTEWATERS	<u>Chemical Tests and Physical Tests</u>		
Untreated and treated domestic and industrial wastewaters	<u>Total Petroleum Hydrocarbons:</u> C ₈ - C ₄₀ ,	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, leachates	Chemical Oxygen Demand	IC 071	E
Untreated and treated domestic and industrial wastewaters, leachates	Biochemical Oxygen Demand	IC 075A BS EN 1899:Parts 1 and 2:1998	E
Untreated and treated domestic and industrial wastewaters, leachates	pH	IC 073	E
Untreated and treated domestic and industrial wastewaters, 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</u>		
Final effluent, Crude sewage, Trade effluent and 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 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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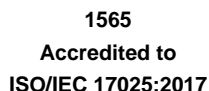
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WASTEWATERS (cont'd)	<u>Chemical Tests and Physical Tests</u>		
WASTEWATERS Untreated and treated domestic and industrial wastewaters, leachates	Suspended Solids	IC 074 Gravimetric determination	E
Raw water (surface water)	Phosphorus	ICPMS5 using ICPMS	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
Bacterial isolates from the testing of Raw and Drinking water using method MD08	Identification of Coliforms and <i>E. coli</i>	Method MD17 using MALDI-TOF	E, I



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WATERS (cont'd) Drinking Water, Raw water (ground and surface waters)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Procedures based on isolation and identification of Cryptosporidial oocysts in water	E
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)	
	<u>Isolation and enumeration of:</u>	Documented In-house Procedures based on "The microbiology of Drinking Water (MODW)	
RECREATIONAL WATERS (Swimming Pools)	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
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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
END of Section 1			

Section 2 – Testing (Flexible Scope)

AQUEOUS MATRICES Various aqueous matrices as included in section 1 and 3 of the schedule	<u>Chemical Tests</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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Section 3 – Testing SEPA MACS scheme			
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) 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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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 Orthophosphate	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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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
END of Section 3			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Section 4 - SAMPLING AND ON-SITE TESTING: See Appendix 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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Testing performed by the Organisation at the locations specified

Appendix A

Sampling Office / Depot Locations

North Region

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



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
North Region Cont'd							
Turriff Depot	Turriff Water Treatment Works Shandscross Turriff Aberdeenshire AB53 7PL	✓		✓	✓	✓	✓
Dundee Depot	Bullion House Mill Road Invergowrie Dundee DD2 5BB	✓		✓	✓	✓	✓
Lerwick	Duncan House Upper Sound Lerwick Shetland ZE1 0SU	✓		✓	✓	✓	✓
Stornoway	Stornoway Waterworks Barvas Road Newmarket Stornoway HS2 0SD	✓		✓	✓	✓	✓
Orkney Area Office, Kirkwall	Seafire Road Kirkwall Orkney KW15 1WL	✓		✓	✓	✓	✓
Unst	Unst WTW Unst Shetland			✓	✓		✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
North Region Cont'd							
Yell	Yell WTW Yell Shetland			✓	✓		✓
Fetlar	Fetlar WTW Fetlar Shetland			✓	✓		✓
Whalsay	Whalsay WTW Whalsay Shetland			✓	✓		✓
Fair Isle	Fair Isle WTW Fair Isle Shetland			✓	✓		✓
Skerries	Skerries WTW Skerries Shetland			✓	✓		✓
North Ronaldsay	North Ronaldsay WTW Anchum North Ronaldsay Orkney			✓	✓		✓
Westray	Westray WTW Westray Orkney KW17 2BZ			✓	✓		✓
Sanday	Sanday WTW Sanday Orkney KW17 2BA			✓	✓		✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
North Region Cont'd							
Eday	Eday WTW Eday Orkney KW17 2AA			✓	✓		✓
Stronsay	Stronsay WTW Stronsay Orkney KW17 2AR			✓	✓		✓
Rousay	Rousay WTW Rousay Orkney			✓	✓		✓
Halkirk	Calder WTW Halkirk KW12			✓	✓	✓	✓
Elgin Office	Moycroft Road Elgin IV30 1XE			✓	✓	✓	✓
Shapinsay	Shapinsay WTW Shapinsay Orkney			✓	✓		✓
North Hoy	North Hoy WTW Heldale Orkney KW16 3NJ			✓	✓		✓
South Hoy	South Hoy WTW South Hoy Orkney			✓	✓		✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
North Region Cont'd							
Papa Stour	Papa Stour WTW Papa Stour Shetland			✓	✓		✓
Flotta	Flotta WTW Flotta Orkney			✓	✓		✓
Benbecula Office and Depot	Market Stance Western Isles HS7 5LT	✓		✓	✓	✓	✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
South Region							
Edinburgh	Juniper House Heriot Watt Research Park Avenue North Edinburgh EH14 4AP	✓		✓	✓	✓	✓
Galafoot Office	Winston Road Galashiels Selkirkshire TD1 3HH	✓		✓	✓	✓	✓
Stirling	Forth House Munro Road Springkerse Stirling FK7 7XC	✓		✓	✓	✓	✓
Glasgow Sampling Depot	Buchanan Gate Business Park Cumbernauld Road Stepps G33 6FB	✓		✓	✓	✓	✓
Region Office, Dumfries	Marchmont House Dumfries DG1 1PW	✓		✓	✓	✓	✓
Ardishaig	Ardishaig WTW Glengilp Road Ardishaig by Lockgilphead Argyll PA30 8HF			✓	✓	✓	✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
South Regions Cont'd							
Oban	Tullich Soroba Oban Argyll PA34 4SB			✓	✓	✓	✓
Isle of Islay – Port Ellen	Torra WTW High Road Port Ellen Isle of Islay Argyll			✓	✓		✓
Isle of Islay – Port Charlotte	Port Charlotte WTW Octomore Farm Port Charlotte Isle of Islay Argyll PA48 7TW			✓	✓		✓
Isle of Jura	Craighouse WTW Craighouse Road Craighouse Isle of Jura Argyll PA60 7XG			✓	✓		✓
Isle of Coll	Coll WTW Shore Road Arinagour Isle of Coll Argyll PA78 6SY			✓	✓		✓



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Office / Depot	Address	Waste Water		Raw and Potable Water			
		Sampling for subsequent chemistry testing	On-site pH testing	Sampling for subsequent chemistry testing	Sampling for subsequent microbiology testing	Sampling for subsequent Cryptosporidium testing (potable water only)	On-site residual chlorine testing
Isle of Colonsay	Colonsay WTW Off A847 Kiloran Isle of Colonsay Argyll			✓	✓		✓
Isle of Tiree	Tiree WTW Balephil Isle of Tiree Argyll PA77 6TN			✓	✓		✓
Isle of Gigha	Gigha WTW Ardailly Isle of Gigha Argyll PA41 7AA			✓	✓		✓