

Summary of Key Changes Water for Scotland 2nd Edition (2007) to Water for Scotland 3rd Edition (2015)			
WfS2 Clause	Description from WfS2	WfS3 Clause	Change Detail in WfS3
Feedback Arrangements	Technical feedback via WRc by telephone	N/A	Technical Feedback on document via Asset Management Standards email
Obtaining further copies of document	Via WRc	N/A	Available as electronic download via Scottish Water
		N/A	New 'Record of Changes and Amendments' added
FORWARD		N/A	General update referencing status as 'specification, focus on water quality and public health compliance. List of review group members omitted
Glossary of Terms		Appendix A	Glossary updated and new Appendix A created
Part 1 - General			
1.1	Application	1.1	Clause reworded to reflect status as a 'Specification'. Reference to SLO removed.
1.2	Ownership of Works	N/A	Clause removed, procedural and sign-off requirement now contained in Customer Guide
		1.2	Clause added - Procedure for Obtaining New Water Infrastructure - New Figure 2 included with flow diagram covering 'pre-development enquiry' to vesting infrastructure. Reference and requirements for to Water Industry Registration Scheme (WIRS) added. References to Utility Connection Provider (UCP) added
1.3	Approval and Competence of Self-Lay Organisations and Their Employees	N/A	Clause removed.
1.4	Protection of Water Quality		Clause removed. Requirements for the protection of water quality included in WfS3 Cl.1.2 reference to WIRS, Cl.2.1 Fig. 3 framework to meet water quality provisions and DOMS reference throughout WfS3 document.
1.5	Contestable and Non-Contestable Work	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.6	The Procedure	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.7	Application to Self-Lay	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.8	Inspection and Auditing	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.9	Completion and Transfer	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.1 0	Contribution Arrangements	N/A	Clause removed. Procedural and policy requirements contained in other Scottish Water documentation
1.11	Statutory and Other Consents	1.3	Statutory and Other Consents Reference to Developer/SLO omitted Sub.Cl.4 re written to simplify Scottish Water requirements for Section 23 agreements.
1.12	Fire Authority Liaison	1.4	Scottish Fire and Rescue Service Liaison Reference to new Scottish Fire and Rescue Service throughout clause Scottish Fire and Rescue Service contact details added.
1.13	Liaison with Other Parties on Site	1.5	Liaison with Other Parties on Site Reference to SLO omitted, reference to WIRS added.
1.14	Regulation	1.6	Regulation List of UK and Scottish legislation updated.
1.15	Standards	1.7	Standards Reference to Regulation 33 of The Public Water Supplies (Scotland) Regulations 2014 added. Contact details for Drinking Water Inspectorate website added.
1.16	CESWI	N/A	Reference to CESWI omitted
Part 2 - Design and Construction Requirements			
2.1	General Design Principles	2.1	Design and Construction Principles Reference to CESWI 6 omitted Figure 3 (Framework of documents for the design, construction and commissioning of water mains and services to maintain and meet water quality provisions) added.
2.2	Preliminary Information	2.2	Preliminary Design Information
2.2.1	Specific Requirements	2.2.1	Specific Design Requirements Clause updated to focus on 'design' requirements. List of design standards updated , including Public Water Supplies (Scotland) Regulations 2014, reference to Standards and Specifications Water Distribution and Standard Details, Scottish Waters Contaminated Land Guidance DOM-WI-PRC-00000202
2.2.2.	Ground Condition Assessment	2.2.2	Ground Condition Assessment Clause re written Reference made to UKWIR report 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites. Reference made to Scottish Waters' Guidance for Installation of Water Mains and Fittings - Additional Guidance List of risk-based assessment omitted. List of desk study (preliminary risk assessment) added.
2.3	Design	2.3	Design

2.3.1	Drawings Clause omitted	2.3.3	Drawings 2.3.3.1 Reference included for - Standard Drawing Format - SSP-SP-SPE-05000501 and General Requirements - SSP-SP-SPE-050005017
2.3.2	Design Objectives	2.3.1	Design Objectives List of Lowest Whole Life Cost requirement updated
2.3.3	Design Considerations	2.3.2	Design Considerations 2.3.2.8 New reference included for 'Stand-Off Distances for Existing/Diverted Water Mains'. 2.3.2.9 Requirement for mains to extend no more than two metres beyond final service connection included 2.3.2.12 Reference included for three valve set up and Scottish Water standard details on SSP-SP-DRA-07000722-01 2.3.2.13 Maximum distance between hydrants shall be 1km - added 2.3.2.20 New requirement included - Design calculation shall be included when submitting design
2.3.4	Cover Depth	2.3.4	Cover Depth Updated Table 1 - Cover for Mains and Services. Minimum and maximum depths included.
2.3.5		2.3.5	Sizing of Mains 2.3.5.4 Reference from 'domestic' changed to 'household'. Reference to BS 6700 removed 2.3.5.7 -Table 2- Typical mains sizes against number of dwellings. Assessment for number of dwelling up to 95 included. Above 95 dwellings has been removed. 2.3.5.8 Reference to non-domestic replaced by non household. 2.3.5.9 Reference to PVC removed
2.3.7	Service Connections 2.3.7.4 Reference to provision of postal address removed.	2.3.7	Service Connections 2.3.7.1 Reference to 'commercial premises' replaced by 'non-household premises'
2.3.8	Materials Selection: Mains and Services	2.3.8	Materials Selection: Mains and Services 2.3.8.1 Updated reference to 'The Public Water Supplies (Scotland) Regulations 2014' included in clause and through out document Reference to SW Specification SSP-SP-SPE-04000404 included
2.3.9	Public Fire Fighting Supplies	2.3.9	Public Fire Fighting Supplies Updated reference to Scottish Fire and Rescue Service included and throughout document 2.3.9.2 table number changed to table 3 for 'Flow requirements for fire fighting'
2.3.10	Environmental Impact 2.3.10.3 Appendix I 'Restrictions When Laying Mains Near To Trees' removed	2.3.10	Environmental Impact 2.3.10.2 updated reference to Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011 2.2.10.3 Tree planting requirements updated with list of tree/ shrubs added. 2.3.10.6 Reference to SLO replaced by 'developer'
2.4	CONSTRUCTION	2.4	CONSTRUCTION 2.4.1 SLO term has been removed in full section 2.4.1.4 Reference to SW guidance 'Standard Conditions for Working Adjacent to Pipelines' added
2.4.2	Ground Contamination During Construction 2.4.2.3 Clause relating to employees training requirements when working in contaminated land has been removed.	2.4.2	Ground Contamination During Construction 2.4.2.1 Reference to UKWIR Best Practice Manual Booklet 2,3 and 5: Desk Study Methodology', Site Investigation Methodology and 'Pipeline Material Selection and Installation Methodology' removed.
2.4.3	Customer Meter Boxes	2.4.3	Customer Meter Boxes 2.4.3.3 reference to SLO replaced by Utility Connection Provider
2.4.4	Connection to Water Distribution System 2.4.4.1 reference to SW making connections to Distribution System removed.	2.4.4	Connection to Water Distribution System 2.4.4.1 requirement to submit a DOMS Impact Assessment Form added 2.4.4.8 Reference to SW 'Guide for Obtaining New Water and Waste Water Services' added 2.4.4.9 Reference to the 'Water Connections Code for Scotland' added
2.4.5	Surface Boxes and Markers	2.4.5	Surface Boxes and Markers 2.4.5.2 Clarification provided for responsibility for installing fire hydrant marker plates
Section 2A - Booster Pumping Station Design			
New addition for Water for Scotland 3rd edition		2.5	Introduction 1. Outlining scope for designs to operate with positive inlet pressure. 2. Designers have been provided with options for the design and/or supply of compliant water booster station utilising Scottish Waters approach to standard product design and Product Catalogues. 2.5.1 Details included for sub-assemblies that make up the water pumping station standard product. 5nr. pumping
Part 3 - Civil Engineering Specification			
		Part 3 has been updated to comply with new Civil Engineering Specification for the Water Industry 7th edition (CESWI 7th)	
3.1.1	Quality of Materials	3.1.1	4.Chemicals to comply with relevant European Standard

3.1.2	Existing Water Distribution System	3.1.2	5. 7 day notice to customers for any interruption to supply
3.3.2	Polyethylene Pipe and Fittings	3.3.2	1. Co-extruded polyethylene pipes should have a blue outer layer on top of a blue or black inner layer 4. Electrofusion fittings should be fitted with recognition resistors and electronic data acquisition facility
3.3.5	Flanges for Pipes and Pipeline Fittings	3.3.5	3. Uni-flange pipe restraints are only permitted for static applications where the degree of maintainability is low.
3.3.10	Valves	3.3.10	1. Penstocks, Cast Iron check valves and Copper alloy gate valves added
3.6.17	Pipe Surround	3.3.17	2. Recycled materials shall comply with BS 8500-2.
3.3.18	General Filling Materials	3.3.18	3. Quarry scalping's shall consist of hardstone passing a 38 mm screen
3.3.19	Water	3.3.19	3. If water for the works is not available from the public supply, approval shall be obtained from SW to other
3.4.2.3	clause removed		
3.4.4	Completion of Pipe Surround	3.4.4	The minimum gap between the pipe barrel and the side of the trench shall be 30 mm for pipe diameters of 280 mm or less, and 50 mm for pipes greater than 280 mm diameter.
3.4.5	Pipe Jointing	3.4.5	6. The number of joints shall be minimised 7. Where the protective coating or lining to the existing pipe or the new pipe is damaged, it shall be made good
3.4.8	Clause Removed		
3.4.11	Dealing with water	3.4.10	5. The developer shall provide method statements and details of pollution prevention measures relating to the control and disposal of groundwater
3.5.1	Cleansing of Pipes Prior to Testing	3.5.1	2. All swabs shall be recovered and accounted for after mains cleaning and shall only be used once.
3.5.2	Precautions Prior to Pressure Testing Pipelines	3.5.2	1. Before pressure testing any pipeline, the guidance in IGN 4-01-03 shall be considered.
3.5.3	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pip	3.5.3	1. The entire pipeline shall be pressure tested in accordance with BS EN 805, IGN 4-01-03, Scottish Water's 'Water Supply: Hygiene Code of Practice' and DOMS.
3.5.6	Disinfection, Sampling and Operation of Water Mains	3.5.6	3. On completion of disinfection, the pipeline shall be left full of water under operating pressure and with sufficient flow or changes of water so as to maintain water quality 4. Groundwater shall not be allowed to come into contact with the inside of water mains after disinfection.
3.5.7	Water for Testing, Swabbing and Disinfection	3.5.7	2. The provisions of Scottish Water's 'Water Supply Hygiene Code of Practice' shall be followed at all times.
Appendices			
		Appendix A	Glossary of Terms Glossary of Terms reviewed and updated
		Appendix B	Publications Section A - List of Publications reviewed and updated Section B - Scottish Water list of DOMS documents have been updated Section C - List of Scottish Waters Standards and Specifications added to this new section
		Appendix C	Standard References in this Specification have been reviewed and updated and now include Water Industry Specifications (WIS) .
		Appendix D	Parliamentary Acts and Regulations Referenced in this Specification - has been reviewed and updated.
		Appendix E	Scottish Fire and Rescue Services Requirements (SFRS) has been review and updated. This is based on extract from Service Level Agreement (SLA) with SFRS which is currently under review. Figure E.1 - has been updated
		Appendix F	Standard Symbols and Line Styles for use on Drawings - Unchanged
		Appendix G	Recommended Water Main Position Relative to Other Utility Apparatus in Footpaths - Unchanged
		Appendix H	Standard Drawings - Additional drawings for Boundary Box and Component Interdependencies added. Other drawing re-drawn.
Appendix I	Restrictions When Laying Mains Near to Trees - this has been removed		
		Appendix I	Style Deed of Servitude had been review with minor changes
		Appendix J	Style Notice to be Served by Developers on Owners/Occupiers - unchanged
		Appendix K	Style Section 23A (1) Authorisation. Additional CI 9(b) - added Scottish Water signatory section added
Note: The general tone and feel of the document has been changed, i.e. should's have become shall's, so it reads as a Specification rather than guidance			