Water Supply Change Log – Update 1 – 5/06/2025

Version	Date	Sections Affected	Summary of Changes	Reason for Change	Author/ Reviewer	Approved By
2.0	19/05/2025	Multiple	Revision of multiple sections	Operational Feedback	Mark Andrews/ Chrissie Reid	Tim Mason

Detailed Change Log – Version 2.0 (5/06/2025)

Section	Previous Text	Updated Text	Reason for Change
7.1 Reference Documents	Supply Bylaw 2008 (Document Link	Supply Bylaw 2008 (Document Link)	Grammer
7.1 Reference Documents	Selwyn District Council 5Waters – Strategies and Policies (2009) (Document Link)	Waiora One Water Strategy (Document Link)	Referring to the most recent strategy document
7.1 Reference Documents	Ministry of Health Drinking Water Standards for New Zealand 2005 (amended 2018) and any subsequent amendments	Taumata Arowai Drinking Water Standards and Drinking Water Quality Assurance Rules (DWQAR) (Guidance and Resources Taumata Arowai)	Referring to the most recent standards
7.1 Reference Documents	AS/NZS 4020:2010	AS/NZS 4020:2018	Referring to the most recent standards
7.1 Reference Documents		AS/NZS 2566.2 Buried Flexible pipelines - Installation	Added appropriate standard to reference.
7.1 Reference Documents	AS/NZS 2845.1:2018	AS/NZS 2845.1:2022	Referring to the most recent standards
7.1 Reference Documents		Added references to multiple Council policy documents	Council policy is a founding documentation for the ECOP
7.2 Overview of Selwyn District's water supply	number of separate schemes that sources high quality groundwater	number of separate schemes that sources groundwater	Unnecessary qualifying remark.
7.2 Overview of Selwyn District's water supply	SDC's networks include the following supplies:	SDC's networks include the following:	Unnecessary qualifying remark.
7.2 Overview of Selwyn District's water supply		Removed Castle Hill and Raven Drive	Update to scheme status.

Section	Previous Text	Updated Text	Reason for Change
		from On Demand	
		Supplies	
7.2 Overview of		Added Castle Hill to	Update to scheme
Selwyn District's		Combination of On	status.
water supply		Demand and	
		Restricted	
7.2 Overview of		Corrected spelling	
Selwyn District's		errors for 3 scheme	
water supply		names.	
7.2 Overview of		In accordance with	Update to reflect
Selwyn District's		Council Policy, water	Council policy.
water supply		connection type (On	
		demand or	
		restricted) is no	
		longer solely defined	
		by scheme type. If	
		connections to a	
		water supply are	
		available, a restricted	
		water connection	
		would be required for	
		all restricted water	
		supplies, land	
		parcels greater than	
		2,500m2 applying to	
		connect to an on-	
		demand water	
		supply and all	
		subdivisions or	
		similar mechanisms	
		to create for	
		premises with a land	
		parcel greater than	
		2,500m2.	
7.2.1 Effects of		Were modification or	Council's preference
Development on the		additional Water	is to manage the
Water Supply		Treatment Plants,	design process
Network		Water Pump	regarding this asset
		Stations, Bores and	to ensure all
		Bore headworks are	regulatory
		required this work	requirements are
		will be designed and	met.
		delivered by	
		Councils Water	
		Servies Team at the	
		consent holders	
7014/ 0 :		expense.	A 1 110 6 60
7.3 Water Supply	Council expects	Council expects	Addition to reaffirm
Design	designers to	designers to develop	Council's
Considerations	develop water	water supplies that	commitment to
	supplies that	support Selwyn	water supply
	support Selwyn	District Council's	objectives and
	District Council's	obligations to provide	outcomes.

Section	Previous Text	Updated Text	Reason for Change
	obligations to provide safe and reliable potable water.	compliant, safe and reliable potable water.	
7.3 Water Supply Design Considerations	Capacity and ability to service future extensions and development	Capacity and ability to service future intensification, extensions and development	To support growth in area's zoned MRZ potential intensification must be a design consideration.
7.3 Water Supply Design Considerations	Provide flexible joints and isolation valves at all junctions between rigid structures (e.g. reservoirs, pump stations, bridges, buildings, manholes) and natural or made ground	Provide flexible joints and isolation valves at all junctions between rigid structures (e.g. reservoirs, pump stations, bridges, buildings, manholes/chambers) and natural or made ground	Acknowledgement that chambers are also used.
7.3 Water Supply Design Considerations	In general a minimum of 300kPa is supplied at the point of supply.	In general a minimum of 310kPa is supplied at the point of supply within on demand schemes.	Updated to Council's level of service identified in the Activity Management Plan.
7.3 Water Supply Design Considerations		Supplied pressures in restricted schemes generally vary due to topography but must always exceed 150kPa and be less than 850kPa.	Design requirement for restricted water supply schemes.
7.3.2 Material specifications	Store fittings under cover at all times.	Store pipework and fittings under cover at all times. Stored pipe must have ends capped at all times.	Requirement reflects industry best practice.
7.3.2 Material specifications		Galvanised Steel pipework must not be buried.	Requirement reflects industry best practice.
7.4 Design Parameters	Other requirements (e.g. minimum mains size)	Other requirements (e.g. minimum mains size, connection sizes)	Added extra qualifier for context.
7.4 Design Parameters	Large diameter pipes (>200mm dia) and trunk mains should not have direct connections.	Large diameter pipes (>300mm dia) and trunk mains should not have direct connections.	Increased pipe diameter.

Section	Previous Text	Updated Text	Reason for Change
7.4.1 Living zones in on-demand water supply areas	The design average flow rates for the Selwyn District are based on Figure 1.	The design average flow rates for on demand connections within the Selwyn District are based on Figure 1.	Added for clarity.
7.4.1 Living zones in on-demand water supply areas 7.4.1 Living zones in on-demand water	The minimum residual pressure at all points of supply must be no less than 300 kPa Figure 1 - Peak	The minimum residual pressure at all points of supply must be no less than 310 kPa Figure 1 - Peak living zone on demand	Updated to the Council's level of service identified in the Activity Management Plan. Added for clarity.
supply areas 7.4.2 Industrial or Commercial	living zone design flow rates 7.4.2 Business zones in on-demand	supply design flow rates 7.4.2 Industrial or Commercial activities	Updated section name for clarity.
activities in on- demand water supply areas 7.4.3 Design for	water supply areas Provide each	in on-demand water supply areas Provide each	Added two paragraphs to the section to reflect policy requirements. Updated to reflect
restricted water supply areas	property with a restrictor at the time of connection that will pass the allocated number of units over a 24-hour period, depending on the volume set down under the resource consent.	property with a restrictor at the time of connection that will pass the allocated number of units over a 24-hour period, depending on the volume set down by the Water Services Team and/or under the resource consent.	that not all connections are granted under resource consent.
7.4.3 Design for restricted water supply areas	Rural supply connections shall include dual check valve manifold with restrictor and tanks shall have a ball cock to provide air gap separation.	Restricted supply connections shall include dual check valve manifold with restrictor and tanks shall have a ball cock to provide air gap separation.	Updated to reflect current Council policy.
7.4.3 Design for restricted water supply areas		Tanks must be sealed and include air gap separation in the form of an overflow the greater of; 100mm below the inlet pipework invert or a minimum of 1.5 times the inlet diameter below the inlet pipework invert.	Sentence added to clarify installation requirements.

Section	Previous Text	Updated Text	Reason for Change
		The overflow must	J
		include a insect and	
		vermin proof mesh.	
7.4.3 Design for	Any other sources of	Any other sources of	Qualifying statement
restricted water	water on any	water on any	added for clarity.
supply areas	property must not be	property must not be	
	connected to the	connected to the	
	reticulation	reticulation upstream	
	upstream of the air	of the air gap	
	gap separation.	separation at the	
7.4.2 Design for	Design word	tank.	Undeted to reflect
7.4.3 Design for restricted water	Design rural	Design restricted	Updated to reflect current Council
supply areas	supplies for domestic purposes,	supplies for domestic purposes, rather	policy.
Supply aleas	rather than for stock	than for stock water	policy.
	water or irrigation	or irrigation	
	purposes.	purposes.	
7.4.3 Design for	Individual sites may	Where available,	Updated to reflect
restricted water	provide their own	connection to a	current Council
supply areas	water bores for	Council reticulated	policy.
	domestic purposes.	system is strongly	
		preferred; however,	
		individual sites may	
		provide their own	
		water bores for	
		domestic purposes.	
7.4.4 Fire Supply		Residential areas	Statement added to
Design		which do not supply	clarify design
		an industrial area	expectations for mixed zone
		must be designed to accommodate FW2	requirements.
		classification.	requirements.
		Commercial or	
		industrial areas must	
		be designed to	
		accommodate FW3	
		classification. If	
		subdivision areas	
		include multiple land	
		uses (both	
		commercial/industrial	
		and residential) they	
		must be designed to	
		achieve FW3	
7 A A Fina Curath	Mhon considering	classification.	Qualifying statement
7.4.4 Fire Supply	When considering the effect on the	When considering the effect on the	Qualifying statement
Design	reticulation network	reticulation network	added for clarity.
	of the firefighting	of the firefighting	
	hydraulics (flow,	hydraulics (flow,	
	headloss and	headloss and	
	,		i
	pressure) scenario	pressure) scenario	

Section	Previous Text	Updated Text	Reason for Change
	SNZ PAS 4509:2008, the minimum pressure at all points of supply in the network shall not be less than 200 kPa.	network hydrants, as determined by SNZ PAS 4509:2008, the minimum pressure at all points of supply in the network shall not be less than 200 kPa.	
7.4.4 Fire Supply Design	Hydrant posts are not required in urban areas.	Hydrant posts are only required in rural areas and on all water supplies (rural and urban) greater than 300m above sea level.	Update to better reflect expectation regarding marker posts for fire hydrants.
7.4.4 Fire Supply Design		Private pumps (including for firefighting purposes) must not be directly connected to the Council reticulation network downstream of the point of supply, they must have a privately owned reservoir between the council point of supply and pump suction. These tanks and pumps must be sized to accommodate the full volume and pressure requirements of the sprinkler system without supplementary supply from the reticulation network. The inlet to all firefighting storage tanks must be restricted to refill in no less than 6 hours, assuming 310 kPa at the point of supply (subject to scheme source availability and reticulation network constraints), unless agreed to by Selwyn District	Updated to reflect current Council Policy requirements.

Section	Previous Text	Updated Text	Reason for Change
		Council Water Services Team in writing prior to construction.	
7.4.4 Fire Supply Design	All main connections to the Council reticulation must have a flow meter and testable backflow prevention fitted.	All firefighting connections to the Council reticulation must have a flow meter and testable backflow prevention fitted.	Correct errors in wording.
7.4.4 Fire Supply Design		There must not be any cross connection within the lot boundary between any fire connection and the domestic equivalent connection for normal demand. The systems must be hydraulically separate from the main in the road reserve and within the lot.	Updated to reflect current Council Policy requirements.
7.4.5 Standard Water Supply Pipe Sizes		PE watermains – 125 OD, 180 OD, 250 OD, 315 OD, 355 OD, 450 OD, 560 OD and 630 OD	Added to provide clarity on acceptable PE pipe sizes previously not specified.
7.4.5 Standard Water Supply Pipe Sizes	Commercial developments – approved on a caseby-case basis.	Commercial Lots/developments – approval by SDC Water Services team or resource consent on a case-by-case basis.	Updated for clarification.
7.4.6 Minimum Pipe Class and Fitting Class	The infrastructure shall be designed and pressure tested to the pressure rating of the lowest rated pipework or fitting (PN12).	The infrastructure shall be designed and pressure tested to the pressure rating of the lowest rated pipework or fitting.	Removed PN12 classification to stop confusion regarding testing requirements.
7.4.7 Infrastructure Sizing		Firefighting storage and sprinkler system design.	Updated design information requirement for completeness.
7.4.7 Infrastructure Sizing	Some of Selwyn District Councils water supplies are pumped, so keep	The majority of Selwyn District Councils water supplies are	Updated design requirement to align with best practice.

Section	Previous Text	Updated Text	Reason for Change
	hydraulic gradients	pumped, so keep	
	(other than for	hydraulic	
	firefighting	gradients/headlosses	
	purposes) below	other than for	
	0.01m/m.	firefighting purposes)	
		below 0.01m/m and	
		pipeline velocities	
		below 1.5m/s.	
		All Water Treatment	Council's preference
		Plants, Water Pump	is to manage the
		Stations, Bores and	design process
		Bore headworks are	regarding this asset
		required this work	to ensure all
		will be designed and	regulatory
		delivered by	requirements are
		Councils Water	met.
		Servies Team at the	
		consent holders	
7.4.40 Main a Laurent	Dunaida a fan	expense.	A - - - - - - - - - - - - -
7.4.10 Mains Layout	Provision for	Provision for	Added for clarity
	hydrants, scour and air valves	hydrants, scour and air valves and their	regarding design information
	all valves		
		position outside of areas prone to	expectations.
		surface water	
		ponding.	
7.4.10 Mains Layout	A hydrant must be	A hydrant must be	Added for clarity.
l i i i i i i i i i i i i i i i i i i i	placed at the end of	placed at the end of	radou for olamy.
	all permanent and	all permanent and	
	temporary sections	temporary sections	
	of dead-end mains	of dead-end mains	
	greater than or	greater than or equal	
	equal to 100mm	to 80mm nominal	
	diameter.	diameter.	
7.4.10 Mains Layout		In rural areas a	Added to reflect best
		backflow protected	practice.
		above ground	
		manual flush point	
		must be placed at	
		the end of all	
		permanent sections of dead end mains	
		less than 80mm	
		diameter.	
7.4.10 Mains Layout		One toby box per	Change from Jumbo
7.7. TO Mail is Layout		connection is	boxes to a more
		preferred but multi-	appropriate solution.
		box style toby boxes	appropriate colution.
		(such as Acuflo	
		Class C mega boxes	
		located in the berm	
		or similar approved)	
		with 316L stainless	

Section	Previous Text	Updated Text	Reason for Change
		fasteners, 316L internal pipework and standard SDC manifolds, etc.) may be used subject to Council approval (generally where more than four back sections are serviced by a right of way). When used, each manifold must be clearly labelled regarding which property it serves.	
7.4.10 Mains Layout	Give special consideration to the design and installation of pipelines in any land prone to slips or instability or with a gradient steeper than 1:10.	Give special consideration to the design and installation of pipelines and waterstops in any land prone to slips or instability or with a gradient steeper than 1:10.	Added for completeness.
7.4.11 Reticulation location and depth in legal road	Minimum pipe cover 0.6m, maximum cover 1.2m unless otherwise agreed in writing with the Development Engineer.	Minimum pipe cover 0.6m in the berm and 0.75m in the road, maximum cover 1.2m unless otherwise agreed in writing with the Development Engineer.	Updated to reflect best practice.
7.4.11 Reticulation location and depth in legal road		Laterals. Pipe Cover: 0.6m in the berm and 0.75m in the road.	Added for completeness.
7.4.13 Reticulation on Private Property			Section content rewritten for improved understanding.
7.4.15 Submains	Valves are to be installed at each end.	Valves are to be installed on the submain at each end.	Addition of qualifying statement to clarify expectation.
7.4.15	Removed Table 2 – number of allowable connections to a submain.	The maximum number of connections to a submain within an on-demand scheme is 14. Where hydraulic modelling (using peak living	

Section	Previous Text	Updated Text	Reason for Change
		zone design flow	
		rates) identifies a	
		conflict with	
		maximum permitted	
		headloss parameters	
		the number of	
		connections on a	
		ring fed submain	
		shall be reduced to	
		achieve compliance.	
7.4.17 Trenchless		How the interface	Added extra design
Technology		between carrier	consideration.
learning		pipes and	consideration.
		watermains will be	
		sealed to prevent	
		migration of backfill	
		materials.	
7.4.17 Trenchless		The minimum	Added additional
Technology		pressure class for	design constraint.
recritiology		PE pipe used for	design constraint.
		directional drilling	
		within the District is	
		PN16. PE pipework	
		used for directional	
		drilling is preferred to	
		be full RC pipe.	
7.4.18 Connection		All costs associated	Clarifying statement
Design		with connection	to reflect Council
Requirements		standover by Council	policy.
Nequirements		Approved Network	policy.
		Management	
		Contractor must be	
		paid at the time of	
		application for the	
		connection and prior	
		to the connection	
		being approved.	
7.4.19 Provision for	WSP005. Pressure	WSP005. Pressure	Added additional
pressure testing and	testing and	testing, and	testing requirements
sterilisation	chlorination must be	chlorination and	to reflect WSP005
Stermoation	completed and	bacterial testing must	requirements.
	approved before any	be completed and	requirements.
	connection to SDC's	approved before any	
	water network.	connection to SDC's	
	Water Hetwork.	water network.	
7.4.19 Provision for	Reports must be	Reports must be	Added additional
pressure testing and	produced for both	produced for	reporting
sterilisation	pressure tests and	pressure tests, and	requirements to
3.GHIII3AHUH	chlorination.	chlorination and	reflect WSP005
	ornormation.	bacterial testing.	requirements.
7.4.19 Provision for	Corde will follow the	Council Network	Remove reference
, 4 , 5 = 10.00 \$ 10.11 10.1	Colue will lollow life	Council INCLWOLK	
	chutdown	Managament	to Cordo
pressure testing and sterilisation	shutdown procedures and	Management Contractor will follow	to Corde.

Section	Previous Text	Updated Text	Reason for Change
	connection to the existing network must be done either by Corde or under the direct supervision of Corde staff.	the shutdown procedures and connection to the existing network must be done either by Councils Network Management Contractor or under the direct supervision of the Network Management Contractor.	
7.4.19 Provision for pressure testing and sterilisation	All contractors must work as instructed by SDC or Corde.	All contractors must work as instructed by SDC or Council's Network Management Contractor.	Removed reference to Corde.
7.5 System Review		Headlosses and velocities in pipeline	Added requirement to reflect best practice.
7.6.1 Valves	Sluice valves are also required at each end of submains. Submain sluice valves are to be 50mm Hawle, AVK or similar.	Sluice valves are also required at each end of submains. Submain sluice valves are to be 50mm Hawle, AVK or similar approved by Council.	Additional qualifying statement to reflect Council policy.
7.6.2 Backflow			Section rewritten to reflect Council policy.
7.6.3 Air Valves		To capture air, air valve take offs/saddles must be located at the top of the pipe and be no less than 50% of the pipe diameter (eg a DN50 saddle/tee on a DN100 pipe, or a DN150 saddle/tee on a DN300 pipe).	Added design consideration requirement.
7.6.3 Air Valves		All air valves must include a downward facing outlet and vermin and insect proof mesh to the vent. Consider how air valve servicing will occur and ensure that air valves can be	Added design consideration requirement.

Section	Previous Text	Updated Text	Reason for Change
		isolated and	
		removed if required.	
7.6.9 Point of	Provide hydrants at	Provide hydrants at	
Supply Connections	low points on	low points on	
and property meters	watermains, to drain	watermains (but	
	the pipeline when	away from areas of	
	scours are not	potential ponding	
	installed.	surface water), to drain the pipeline	
		when scours are not	
		installed.	
7.6.9 Point of	Any connections	Any point of supply	Additional qualifying
Supply Connections	(including meters)	connections	statement for clarity.
and property meters	will become the	(including meters	Classification of the control of t
	property of and be	and/or restrictors)	
	maintained by the	will become the	
	Council.	property of and be	
		maintained by the	
		Council.	
7.6.9 Point of	Meters shall be Kent	Meters will be either	Added addition
Supply Connections	MS-M meters.	Kent MS-M or Elster	water meter option
and property meters		V210 Volumetric meters and must be	
		installed on Accuflo	
		metal manifolds.	
7.6.9 Point of		Water meter assets	The minimum level
Supply Connections		that must be	of service for water
and property meters		relocated as a result	meters is 15yrs best
		of a subdivision that	practice is to replace
		are older than 15yrs	it at the time of the
		will be replaced with	new connection.
		new meters at the	
		time the new	
		connections to Council reticulation	
		are made at the	
		consent holder's	
		expense.	
7.6.9 Point of			Added paragraph
Supply Connections			stating design
and property meters			requirements and
			expectations for
			connections
			supplied to
			commercial connections.
7.6.9 Point of	Design any rural	All properties	Corrected mistakes
Supply Connections	supply to provide	connected to a	with previous
and property meters	three days storage	restricted water	wording to reflect
and proporty motoro	at the design flow	supply will be	resource consent
	for each property.	required to install a	conditions.
		water tank. Design	
		the water tank to	

Section	Previous Text	Updated Text	Reason for Change
		have a minimum of 3	
		days' water storage.	
7.6.10 Reticulation		Section Deleted	No longer required.
Network Flowmeters			
7.7.2 PE Pipeline Construction	One pre- construction test for each weld	One pre-construction test for each pipe size and fitting used and each different pipework material batch	Updated to reflect best practice.
7.7.3 Connection			Section updated to
New Mains to			reflect Council policy
Existing Mains			and best practice.
7.8 Completion		A copy of the signed	Additional QA
Documentation		and dated Network	document
		Management Contractors stand-	requirement.
		over form for each	
		connection. S224	
		will not be issued	
		without this signed	
		form.	
Appendix II			Updated with
			references to new
			standard drawings.

Review By:

(Development Engineering Manager)

Approved By: Date:12/08/2025

(Acting Executive Director Infrastructure and Property)