

Water Supply Risks from the Asset Management Plan (2024)

Location	Risk	Risk types	Gross risk			Management	Net risk		
			Consequence	Likelihood	Risk		Consequence	Likelihood	Risk
District wide	Loss of water supply for more than 8 hours to multiple properties	<ul style="list-style-type: none"> Operational Financial Health & Safety Reputation 	4	5	H	<ul style="list-style-type: none"> Maintain register of key consumers such as dialysis patients, major industries, schools, medical and dental facilities, rest homes, relevant commercial premises Allow for minimum of 1 day storage in reservoirs Council and contractors hold spares of key components Rural water supplies require consumers to have on-site storage 	2	3	G
District wide	Poor drinking water quality	<ul style="list-style-type: none"> Compliance Operational Financial Health & Safety Reputation 	8	3	H	<ul style="list-style-type: none"> Maintain register of key consumers such as dialysis patients, major industries, schools, medical and dental facilities, rest homes, relevant commercial premises 	8	1	M
District wide	Leaks in roads	<ul style="list-style-type: none"> Operational Financial Reputation Compliance 	2	5	M	<ul style="list-style-type: none"> Undertake proactive leak detection through the prioritisation of renewals in roads 	2	4	M
District wide	Failure of AC mains	<ul style="list-style-type: none"> Operational Compliance 	2	5	M	<ul style="list-style-type: none"> Pressure management Renewals programme 	2	4	M
District wide	Reservoir failure following seismic event	<ul style="list-style-type: none"> Operational Financial 	8	2	H	<ul style="list-style-type: none"> Feed reticulation directly Assess seismic strength 	8	1	M
District wide	Trunk main failure (burst or flood damage)	<ul style="list-style-type: none"> Operational Compliance Financial 	8	2	H	<ul style="list-style-type: none"> Proactive leak detection and asset renewals 	8	1	M

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District wide	Poor water quality at dead ends in reticulation	<ul style="list-style-type: none"> Compliance Operational Health & Safety Reputation 	4	4	H	<ul style="list-style-type: none"> Flushing programme Loop mains Backflow prevention 	4	3	M
District wide	Reticulation failure High pressure	<ul style="list-style-type: none"> Operational Financial Compliance 	4	5	H	<ul style="list-style-type: none"> Proactive leak detection and asset renewals 	2	4	M
District wide	Loss of electricity supply	<ul style="list-style-type: none"> Compliance Operational Health & Safety 	4	4	H	<ul style="list-style-type: none"> Use onsite standby generators 	2	4	M
District wide	Insufficient water supply for firefighting	<ul style="list-style-type: none"> Operational Financial Health & Safety Reputation 	8	2	H	<ul style="list-style-type: none"> Test hydrant pressure and flow Liaise with FENZ Programme improvements where need identified Upgrade Sanson reticulation 	4	2	M
District wide	Inability to meet response time targets	<ul style="list-style-type: none"> Compliance Operational Reputation 	1	4	G	<ul style="list-style-type: none"> Ensure adequate staffing levels and knowledge Manage risks to staff such as illness, injury etc. 	1	3	L
District wide	Demand for water exceeds supply	<ul style="list-style-type: none"> Compliance Operational Financial Reputation 	4	2	M	<ul style="list-style-type: none"> Plan for development to secure additional water sources Manage demand 	2	2	G
District wide	Intake damaged due to flooding or	<ul style="list-style-type: none"> Operational 	8	2	H	<ul style="list-style-type: none"> Inspect regularly and communicate with Horizons about 	8	1	M

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District wide	Condition of River, particularly aggradation	<ul style="list-style-type: none">Financial	8	2	H	condition of River, particularly aggradation	8	1	H
District wide	Rising main failure	<ul style="list-style-type: none">OperationalComplianceFinancial	8	2	H	<ul style="list-style-type: none">Proactive leak detection and asset renewals	8	1	M
District wide	Damage to bores following seismic event, flooding or liquefaction	<ul style="list-style-type: none">OperationalFinancial	8	2	H	<ul style="list-style-type: none">Ensure bore casings meet required specificationsEnsure all bores can be used for supply	8	1	M
Feilding	Clarifier failure due to seismic event causing structural failure	<ul style="list-style-type: none">ComplianceOperationalFinancialHealth & Safety	8	2	M	<ul style="list-style-type: none">Get Almadale clarifier inspectedProgramme renewal	8	1	M
Feilding, Sanson & Stanway-Halcombe	Flood damage to or destruction of plants, pumps, pipelines and reservoirs could lead to a loss of supply	<ul style="list-style-type: none">ComplianceOperationalEnvironmentalFinancialHealth & SafetyReputation	8	2	H	<ul style="list-style-type: none">Provide enhanced flood protection of key assetsEnsure alternative options are available and located outside the flood zone	2	2	G
Feilding & Waituna West	River crossing failure	<ul style="list-style-type: none">ComplianceOperationalFinance	8	2	H	<ul style="list-style-type: none">Crossing is above flood levels	8	1	M
Feilding & Stanway-Halcombe	Mains failure under railway line	<ul style="list-style-type: none">ComplianceOperationalFinancial	4	2	M	<ul style="list-style-type: none">Use directional drillingProactive detection and renewals	2	1	L

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Sanson	Failure of mains under SH1	<ul style="list-style-type: none"> Compliance Operational Financial Health & Safety Reputation 	4	2	M	<ul style="list-style-type: none"> Proactive condition assessment and asset renewal Relocated assets off highway where feasible Work with NZTA to minimise risk of breakage 	4	1	M
Stanway-Halcombe	Scheme becomes uneconomic to operate – decline in demand	<ul style="list-style-type: none"> Financial Health & Safety 	8	1	M	<ul style="list-style-type: none"> Manage costs Harmonise rates across the district 	8	1	M
Waituna West		<ul style="list-style-type: none"> Reputation 	8	1	H		8	1	
Waituna West & Stanway-Halcombe	Breakdown in relationship between Council and committee	<ul style="list-style-type: none"> Operational Compliance Reputation 	8	3	H	<ul style="list-style-type: none"> Regular attendance at meetings, good customer service and prompt resolution of issues 	8	2	M