

Network Environmental Performance Measures and Guide 2024 – Summary

The following tables are a summary of the network environmental performance measures for drinking water and wastewater.

These tables are for guidance purposes only and are included in section 1.13 of the <u>Network Environmental</u> <u>Performance Measures and Guide 2024</u>. See this document for more details.

Key:

O = Report measures at an organisation level

N = Report measures at network level

Note: *Some measures only need to be reported by councils or council-controlled organisations (CCOs) but not by government departments or the New Zealand Defence Force.

Outcome	Performanc	Ref. code	Data points (and units of measure, where applicable)	Report
	e Measure			at
General asset information	Drinking water network	D-A1	Number of drinking water networks	0
		D-A2	Number of drinking water treatment plants	0
		D-A3	Number of reservoirs	0
	information	D-A4	Number of pump stations	0
		D-A5	Total length of drinking water pipe (km)	0
		D-A6	Number of drinking water abstraction points	N
		D-A7	Drinking water network source type	N
Environmental	Drinking	D-EH1	Number of residential connections in the drinking water	N
and public health	water		network	
is protected	network	D-EH2	Number of non-residential connections in the drinking	N
	connections		water network	
		D-EH3	Total population served by the drinking water network	N
	Volume of water abstracted (m³/year)	D-EH4	Water supplied to the drinking water network	N
		D-EH5	Water imported from other suppliers	0
		D-EH6	Water exported to other suppliers	0
		D-EH7	Non-residential water use	0
	Resource	D-EH8	Number of resource consents that are held	N
	consent	D-EH9	Type(s) of resources consent	N
	compliance	D-EH10	Resource consent reference number(s)	N
		D-EH11	Expiry dates for resource consent(s)	N
		D-EH12	Have consent conditions been met for rate of take and volume of abstraction	N
		D-EH13	Consented rate of take for each abstraction point (L/s)	N
		D-EH14	Maximum daily consented volume of water-take (m ³ /day)	N
		D-EH15	Maximum annual consented volume of water-take (m ³ /year)	N
		D-EH16	Failure to meet resource consent conditions - provide comments	N
		D-EH17	Sludge (tonnes/year)	N

	Drinking water	D-EH18	Backwash water (m ³ /year)	N
		D-EH19	Screenings (tonnes/year)	N
	treatment byproducts	D-EH20	Disposal route	N
	Fish passage	D-EH21	Has an assessment been made for all water-takes	N
	and screening		whether fish passage is impeded within a natural water body	
		D-EH22	Have operational or management processes been put in place to prevent fish ingress	N
Services are reliable	Fault attendance	D-R1	Median hours to attend to an urgent fault	0
	and	D-R2	Median hours to attend to a non-urgent fault	0
	resolution	D-R3	Median hours to resolve an urgent fault	0
		D-R4	Median hours to resolve a non-urgent fault	0
	System	D-R5	Number of planned interruptions	0
	interruption	D-R6	Number of third-party incidents	0
	S	D-R7	Number of unplanned interruptions	0
		D-R8	Number of urban service connections that experience	0
			an unplanned interruption for longer than eight hours	
	Asset	D-R9	% of pipes that have received a condition grading	0
	condition	D-R10	% of pipes in poor or very poor condition	0
		D-R12	Average age of water pipes	0
		D-R13	% of above-ground assets that have received a condition grading	0
		D-R14	% of above-ground assets in poor or very poor condition	0
	Water	D-R15	Average system pressure (kPa)	N
	pressure	D-R16	Are there set pressure levels of service?	N
		D-R17	Reference level of pressure (kPa, if set)	N
		D-R18	Number of properties below reference level of pressure	N
	Water restriction	D-R19	Number of days that water restrictions were applied	0
	days	D-R20	Proportion of affected connections	0
	Sufficient firefighting	D-R21	Have you adopted the FENZ Code of Practice (SNZ PAS 4509:2008)?	0
	water is available	D-R22	% of fire hydrants tested in the previous five years	0
Resources are used efficiently	Drinking water	D-RE1	Estimated total drinking water network water loss (m ³ /year)	N
	network	D-RE2	Current annual real loss (CARL)	N
	water losses	D-RE2b	Optional: Unavoidable Annual Real Losses (UARL)	N
		D-RE3	Infrastructure Leakage Index (ILI)	N
	Use of	D-RE4*	Median residential water consumption	N
	water		(L/day/connection)	
	resources	D-RE5	Do you have a water conservation education	0
			Number of residential connections with water maters	0
		D-REO	Number of residential connections with water meters	0
		D-RE7*	meters	0
		D-RE8	Number of abstraction points with water meters installed	0
		D-RE9	Frequency that water abstraction meters are calibrated/verified (years)	0
		D-RE10	Number of water abstraction meters connected to telemetry systems	0

		D-RE11	Days for which a complete telemetry dataset has been recorded	0
	Energy	D-RE12*	Electricity use	0
	efficiency	D-RE13*	Energy use from other fuels	0
		D-RE14*	Energy generation	0
	Alternative water use	D-RE15	Volume of recycled water supplied to residential customers	0
		D-RE16	Volume of recycled water supplied to non-residential customers	0
		D-RE17	Volume of recycled water supplied to managed aquifer recharge	0
		D-RE18	Volume of urban stormwater reused in network	0
Services are resilient	Critical assets	D-RL1	Have you undertaken an assessment to identify critical assets? Provide comments about your critical assets?	0
	Emergency response	D-RL2	Has an emergency response plan been developed? Provide comments about your disaster response plan	0
	planning and	D-RL3	Has a business continuity plan been developed? Provide comments about your business continuity plan	0
	preparednes	D-RL4	Date the emergency response plan was last reviewed.	0
	S	D-RL5	Date the business continuity plan was last reviewed.	0
		D-RL6	Date when an emergency response exercise was last conducted.	0
		D-RL7	Date when a business continuity plan exercise was last conducted.	0
	Water security	D-RL8	Do you have a strategic plan to address future changes in water supply demand. Provide comments.	0
	Water restrictions	D-RL9	Number of days that outdoor water use was restricted across each network.	0
		D-RL10	Number of days that outdoor water use was banned across the network.	0
		D-RL11	Were other restrictions imposed across the network. Provide comments about why restrictions were imposed.	0
Services are	Actual	D-ES1	Total capital expenditure relating to drinking water by:	0
economically	Expenditure	D-ES1a	 meeting additional demand 	0
sustainable	(for the reporting	D-ES1b	 replacing existing assets, improving the level of service 	0
	period)	D-ES2	Total operating expenditure relating to drinking water	0
	Forecast expenditure	D-ES3	Total forecast drinking water capital expenditure	0
	(for the next reporting period)	D-ES4	Total forecast operational expenditure	0
	Revenue (for the reporting period*)	D-ES5	Total revenue received, relating to drinking water	0

Wastewater Static Measures – reported for the first year as at 1 July 2024

Outcome	Performance Measure	Ref. code	Data points (and units of measure, where applicable)	Report
General asset	Wastewater	\ ₩ _Δ1	Number of wastewater nump stations	
information	network	W-A1	Total length of wastewater plinp stations	0
intermetion	information	W-A2	Total length of combined wastewater and stormwater	0
	internation	VV-A5	pipes (km)	0
		W-A4	Total length of pressured wastewater pipes (km)	0
		W-A5	Total length of vacuum wastewater pipes (km)	0
	Wastewater	W-A8	Number of wastewater treatment plants	0
	treatment	W-A9	Wastewater treatment process(es)	N
		W-A10	Treated wastewater discharge receiving environment	N
Environmental	Wastewater	W-EH1*	Number of residential connections in the wastewater	0
and public health	network		network to gravity sewers	
is protected	connections	W-EH2*	Number of residential connections in the wastewater	0
			network to pressure sewers	
		W-EH3*	Number of residential connections in the wastewater	0
			network to vacuum sewers	
		W-EH4*	Number of non-residential connections in the	0
			wastewater network to gravity sewers	
		W-EH5*	Number of non-residential connections in the	0
			wastewater network to pressure sewers	
		W-EH6*	Number of non-residential connections in the	0
			wastewater network to vacuum sewers	
		W-EH7*	Total population served by the wastewater network	0
	Resource	W-EH8	Number of resource consents held for wastewater	N
	consents		treatment plant	
	compliance	W-EH9	Type of resource consent(s)	N
		W-EH10	Resource consent reference number(s)	N
		W-EH11	Resource consent expiry date(s)	N
		W-EH12	Consent status(s)	N
		W-EH13	Wastewater overflow regulation approach(s) under local	N
			regional plan	
		W-EH14	Number of consents held for wastewater overflows in	N
			the network	
		W-EH15	Resource consent reference numbers for wastewater	N
			overflows	
		W-EH16	Resource consent expiry date for wastewater overflows	N
	Wastewater	W-EH27	Are overflows recorded through verbal reports?	0
	overflows	W-EH28	Are overflows recorded through SCADA monitoring?	0
		W-EH29	Are overflows calculated through hydraulic models?	0
		W-EH30	Are overflows calculated through calibrated hydraulic	0
			models?	_
	Inflow and	W-EH36	Wastewater treatment plant - peak to nominal flow	N
	infiltration		ratio	
		W-EH37	What design standards do you use for calculating the	N
			capacity of wastewater network?	
		W-EH38	Levels of service for preventing wastewater overflows	N
			due to stormwater ingress	
	Trade waste	W-EH39	Number of trade waste consents	0
Services are	Critical assets	W-RL1	Have you undertaken an assessment to identify critical	0
			wastewater assets?	

Wastewater Continuous Measures – reported for the year ending 30 June 2025

Outcomo	Performance	Ref. code	Data points (and units of measure, where applicable)	Report
Outcome	Measure			at
General asset	Wastewater	W-A6	Wastewater imported for treatment from other	0
information	network		wastewater network(s) (m ³ /year)	
	information	W-A7	Wastewater exported for treatment by another	0
			wastewater network (m ³ /year)	
	Wastewater	W-A11	Volume of wastewater treated at treatment	N
	treatment		plant (average dry weather and peak flows) (m ³ /year)	
		W-A12	Volume of trade waste at treatment plant	N
		W-A13	Volume of septage imported for treatment (m ³ /year)	N
		W-A14	Volume of treated wastewater applied to land (m ³ /year)	N
Environmental	Wastewater	W-EH21	Number of overflows caused by blockages	0
and public health	overflows	W-EH22	Number of times that wastewater overflows were	0
is protected			caused by plant failure or equipment damage	
		W-EH23	Number of times that wastewater overflows were	0
			caused by capacity being exceeded in the wastewater	
			network	
		W-EH24	Number of times that wastewater overflows were	0
			caused by capacity being exceeded in combined	
		N/ 51125	Wastewater and stormwater pipes/networks	0
		W-EH25	Number of wastewater overflows resulting from causes	0
			Number of wastewater overflows on private properties	0
		W-EHZO'	attributable to convice provider	0
		W/ EU21	Number of hours where the treatment plant processor	0
		W-ENSI	are fully hypassed (hours)	0
	Trado wasto	W-EH40	Number of times that Trade waste consents were	0
	made waste	W 21140	breached	U
		W-FH41	Describe any actions undertaken due to trade waste	0
			consent holders breaching consent conditions	U
Services are	Fault	W-R1	Median time (hours) to attend to a fault	0
reliable	attendance			U
	and	\A/_P2	Median time (bours) to resolve a fault	0
	resolution	VV-NZ		0
	Systems	W-R7	Number of planned interruptions	0
	interruption	W-R8	Number of third-party incidents	0
	Asset	W-R14	% of wastewater pipes that have received a condition	0
	conditions		grading	-
		W-R15	% of wastewater pipes in poor or very poor condition	0
		W-R16	Average age of wastewater pipes (years)	0
		W-R17	% of the wastewater pipes that have had CCTV	0
			inspections carried out in the last five years	-
		W-R18	% of above-ground assets that have received a condition	0
		-	grading	
		W-R19	% of above-ground assets in poor or very poor	0
			condition	
Resources are	Energy	W-RE1	Electricity use (kWh)	N
used efficiently	efficiency	W-RE2	Energy use from other fuels (GJ)	N
	Process	W-RF4	Wastewater treatment wetland emissions (tCO2e/vr)	N
	emissions	W-RF5	Wastewater effluent disposal emissions ($tCO2e/yr$)	N

	W-RE6	Wastewater sludge treatment emissions (tCO2e/yr)	N
	W-RE7	Wastewater sludge disposal emissions (tCO2e/yr)	N
Biosolids	W-RE9	Production of biosolids (m ³)	N
	W-RE10	% of dry solids in biosolids	N
	W-RE11	% disposal of biosolids to onsite stockpile ratio	N
	W-RE12	Disposal of biosolids in year to landfill (tonnes)	N
N N	W-RE13	Disposal of biosolids composting and reuse (tonnes)	N
	W-RE14	Disposal of biosolids to other routes (tonnes)	N
	W-RE15	Last year plant/pond was desludged (if applicable)	N